

DWG NO

44A0637

REVISIONS

| SYM | DESCRIPTION | APPROVED | DATE |
|-----|--------------------------------|------------|---------|
| A | PRODUCTION RELEASE PER EN81014 | <i>WCL</i> | 8/7/72 |
| B | REVISED NOTE 3 PER EN 81352 | <i>WCL</i> | 12/6/72 |
| | | | |

FOR PARTS LIST SEE 44P0637

DR *MANCARELLI* 6-23-72CHK *W. D. Smith* 7/17/72

DSGN ——— ———

ENGR *W* 7-19-72APPD *W. D. Smith* 7/19/72

APPD ——— ———



varian data machines / a varian subsidiary
2722 michelson drive / irvine / california / 92664

TITLE

PEC DISC CONTROLLER

MODIFICATION

THIS DOCUMENT MAY CONTAIN
PROPRIETARY INFORMATION
AND SUCH INFORMATION MAY
NOT BE DISCLOSED TO OTHERS
FOR ANY PURPOSE OR USED
TO PRODUCE THE ARTICLE
OR SUBJECT, WITHOUT WRIT-
TEN PERMISSION FROM VDM

CODE
IDENT NO.

21101

SIZE

A

DWG NO.

44A0637

REV

B

SCALE

620-36

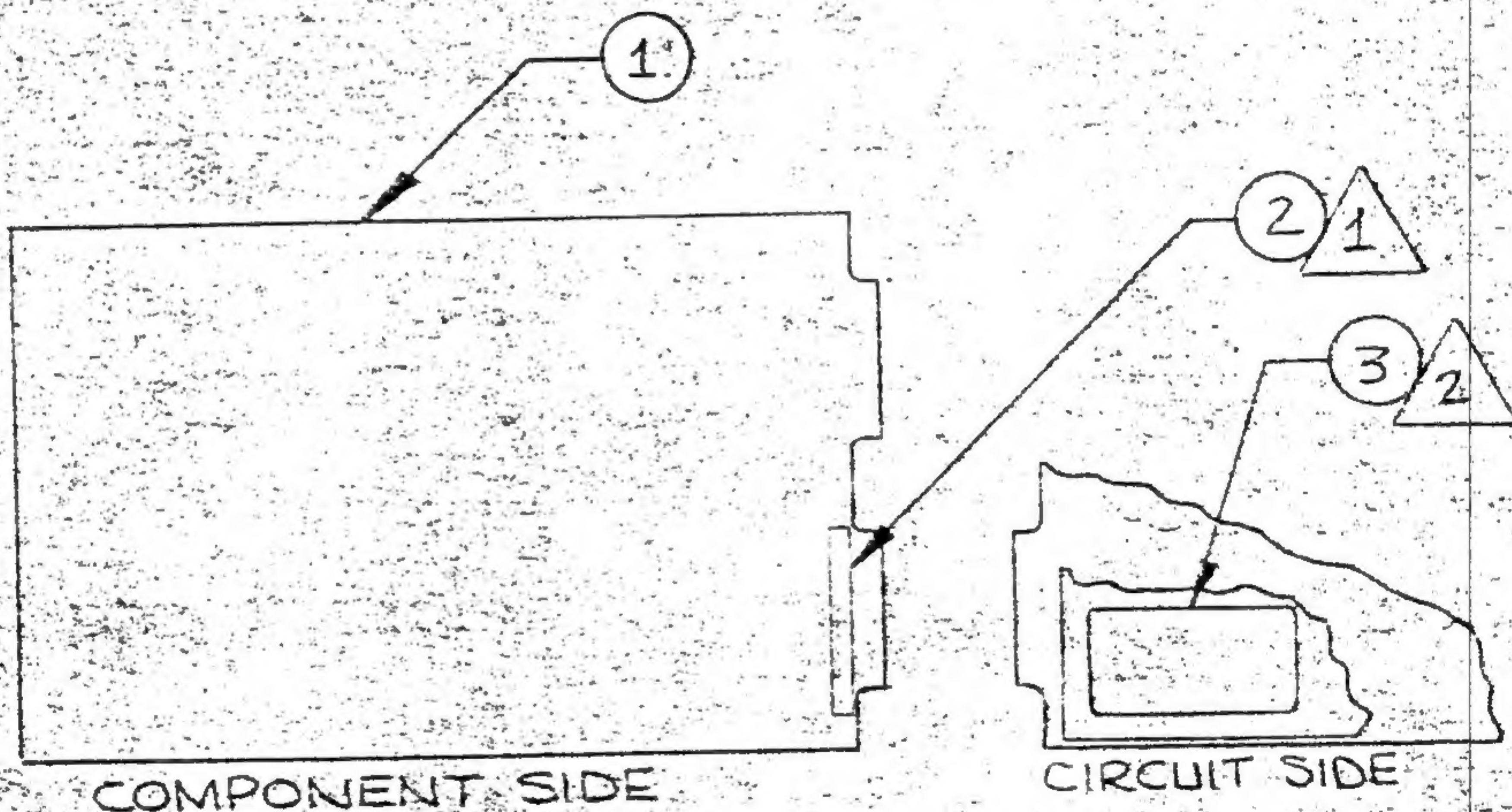
SHEET 1

OF 3

96A0153-0008

NOTES: UNLESS OTHERWISE SPECIFIED:

1. THIS DRAWING MODIFIES 44PO551-000 FOR USE AS A 620-36 PEC DISC CONTROLLER.
2. ADD AND DELETE WIRES PER WIRE LIST 95W0942.
3. ADD F/N 7 & 4 TO BOARD, AT POSITION A8.
4. REMOVE EXISTING LABEL IDENT. AND REPLACE WITH NEW LABEL IDENT. WHERE SHOWN BELOW.
5. ADD F/N 7 & 6 TO BOARD AT POSITION D5.
6. ADD F/N 8 & 7 TO BOARD AT POSITION S8.



MARK PART NO. 44PO637-000 AND THE REVISION LETTER OF THE PARTS LIST TO WHICH THE PART WAS MANUFACTURED ON LABEL (F/N 2) IDENTIFICATION TO BE .12 HIGH CHARACTERS AND PERMANENT.



varian data machines
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CODE
IDENT NO.
21101

44A0637

SH 2 OF 3

B

REV

2

MARK IN TITLE, PARTS LIST NO. 44P0637-000, WIRE LIST NO. 95W0942, LOGIC DIAGRAM NO. 91C0394 AND THE REVISION LETTERS TO WHICH THE PART WAS MANUFACTURED ON LABEL (F/N 3) IDENTIFICATION TO BE .12 HIGH CHARACTERS AND PERMANENT.



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CODE
IDENT NO.

21101

44A0637

B

SH 3 OF 3

REV

1

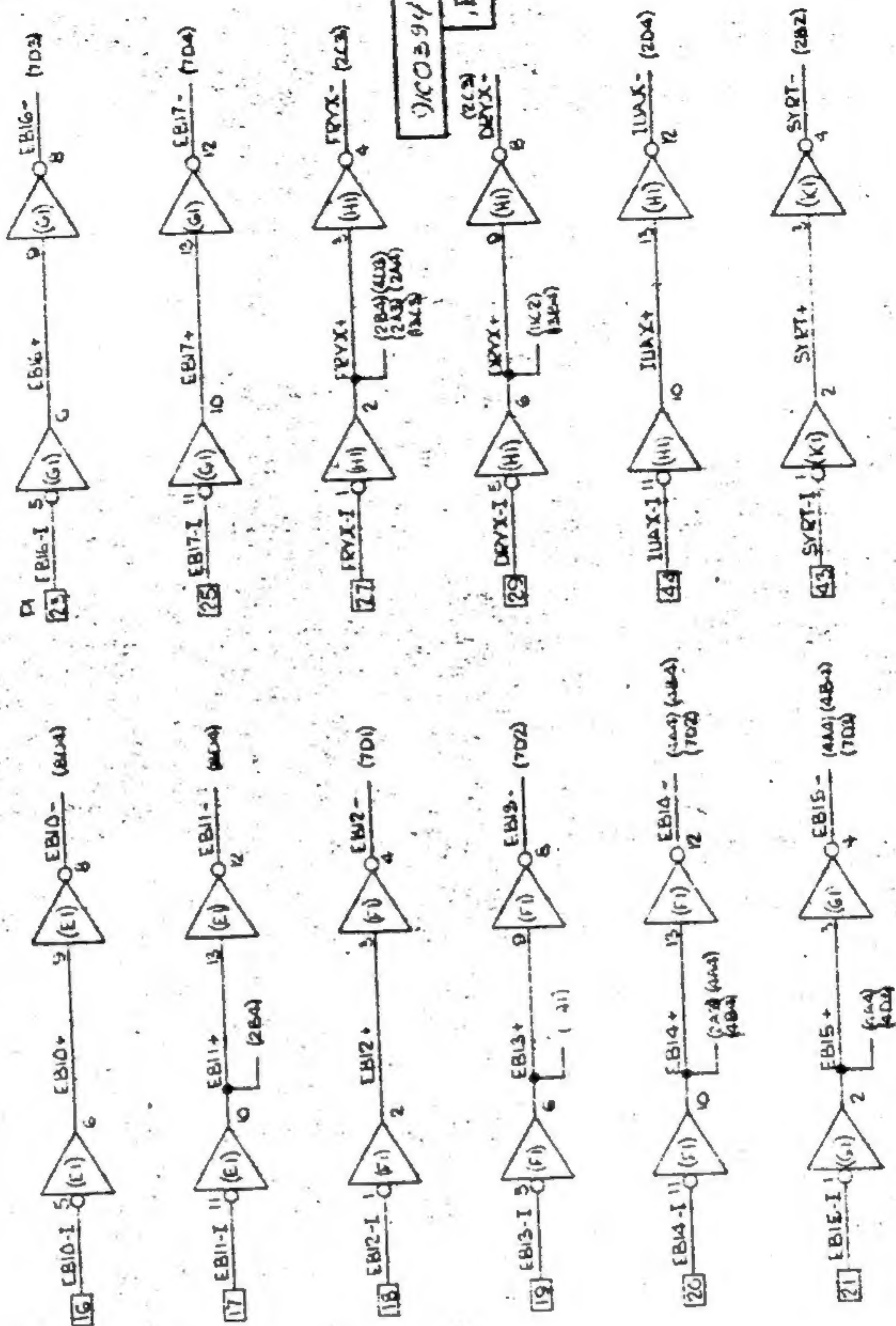
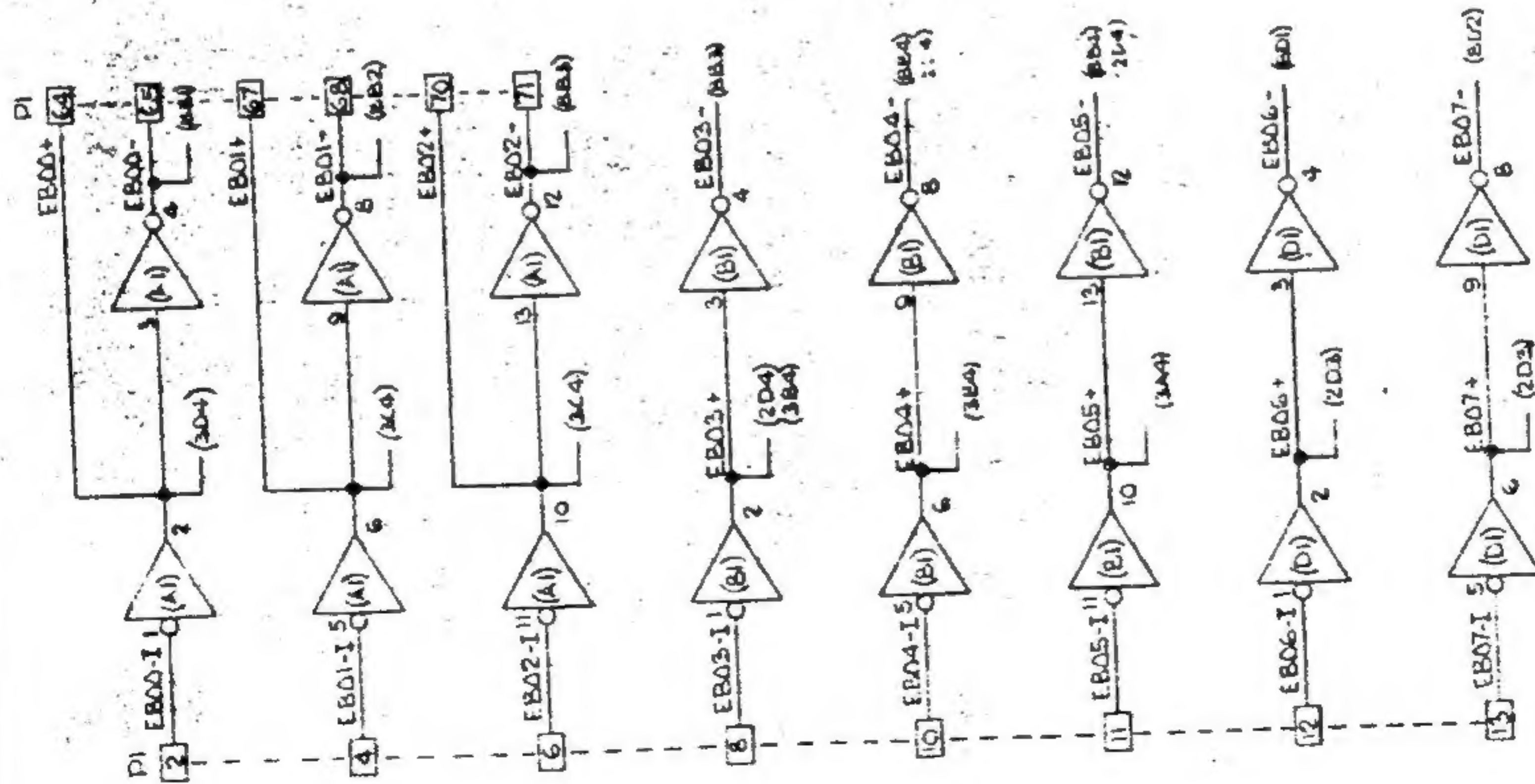
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3

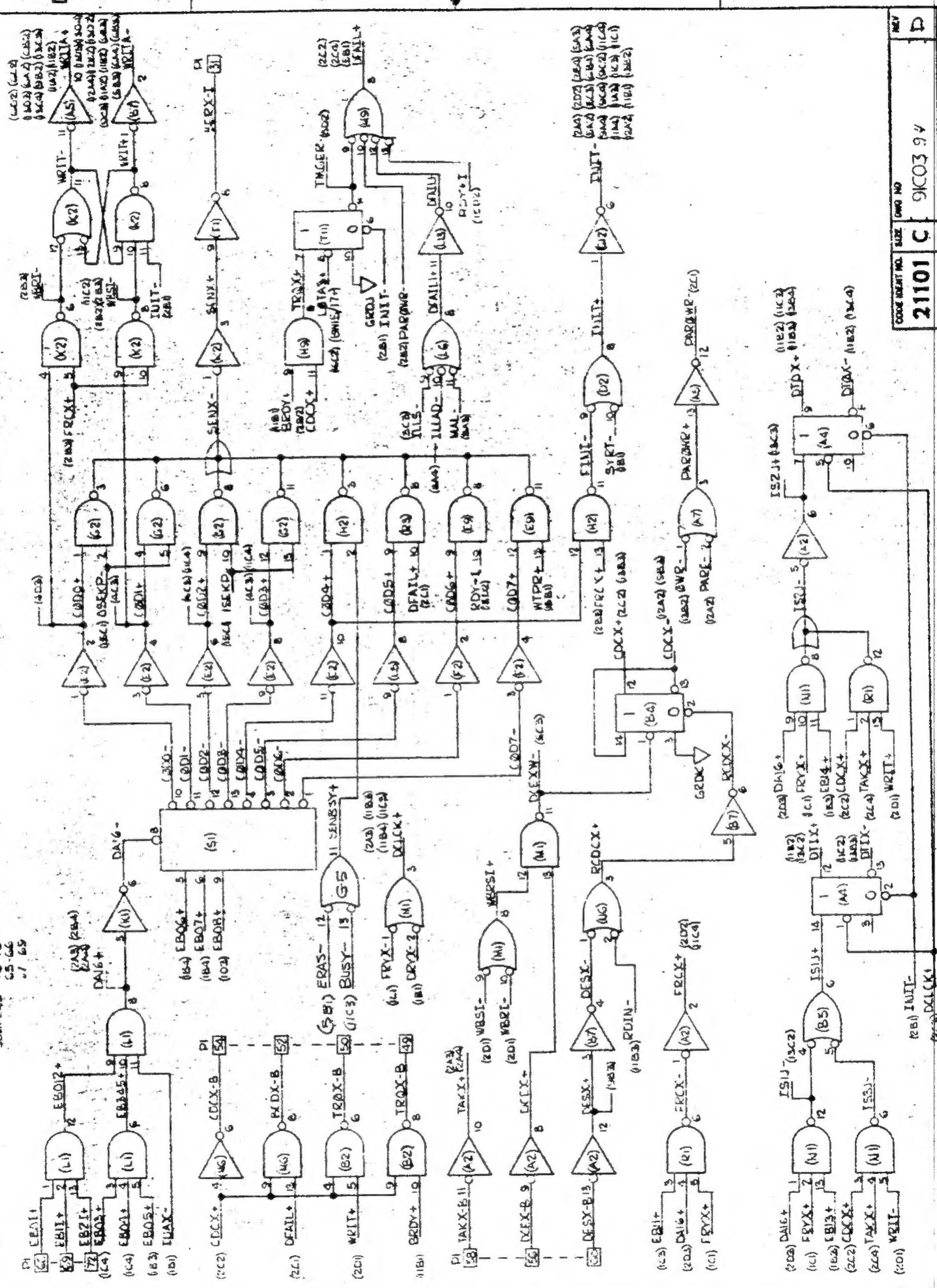
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REVISIONS

| REV | DATE | DESCRIPTION | APPROVED |
|-----|--------|---------------------------------|----------|
| X | 2/5/15 | MODIFIED FOR MODEL 620-36 SHITS | |
| A | 3/1/16 | PRODUCTION RELEASE PER EN 81014 | |
| B | 3/1/16 | REVISED PER EN 81352 | |
| C | 3/1/16 | REVISED PER EN 81327 | |
| D | 3/1/16 | REVISED PER EN 82237 | |



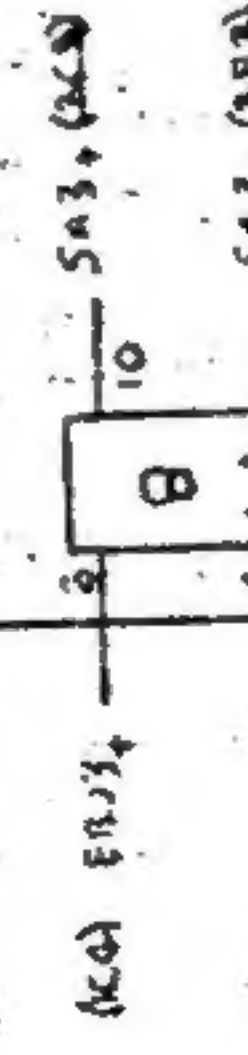
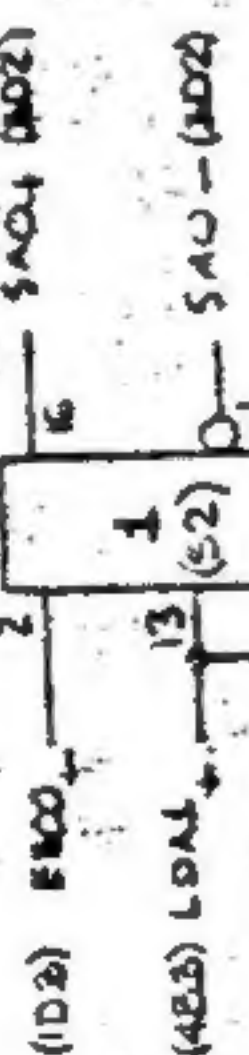
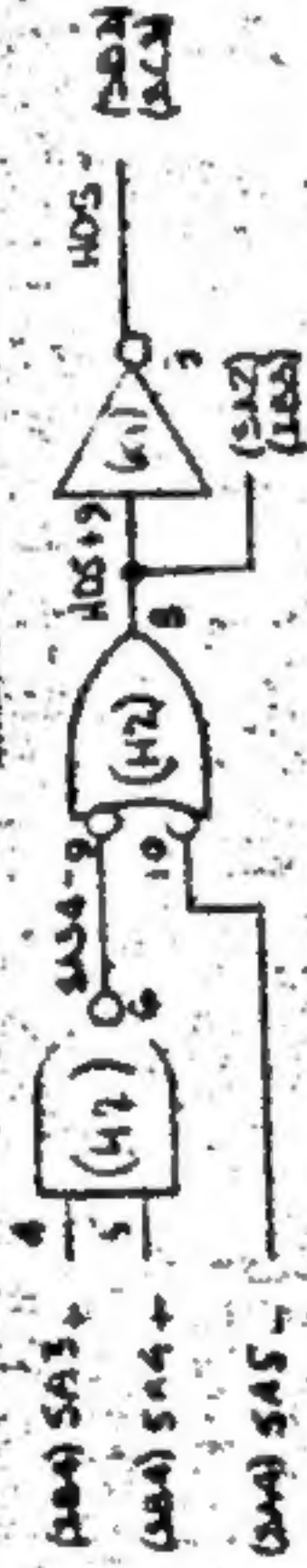
DEVICE ADDRESS = 16
 JUMPER 70-72
 65-66
 67-68



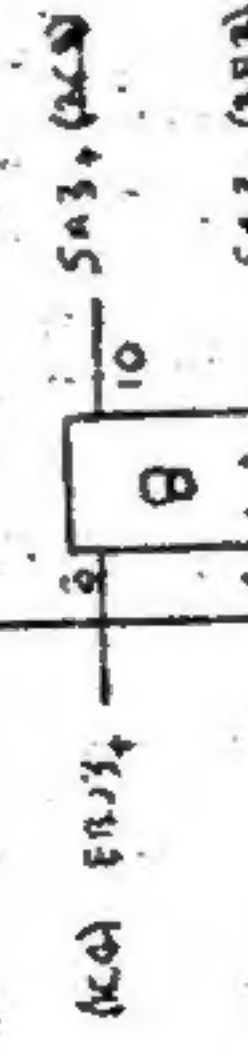
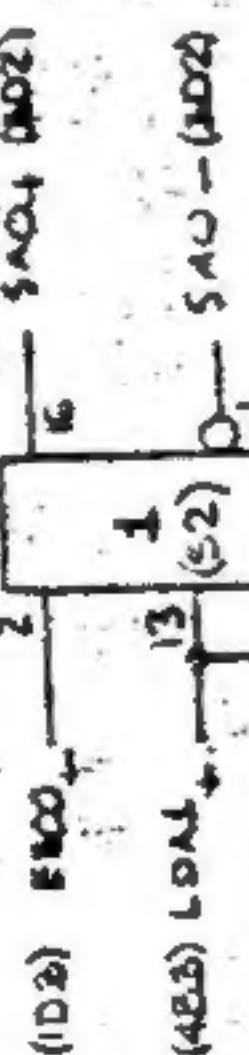
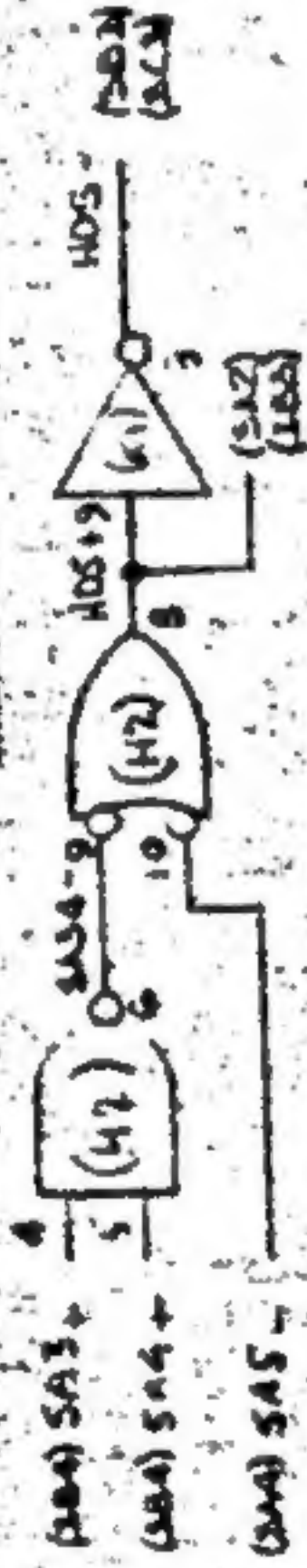
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|----------------|-------|------|---|---------------|----------|-----|---|
| CODE SHEET NO. | 21101 | SIZE | C | DWG NO. | 91C03 94 | REV | D |
| SCALE | | | | SHEET 2 OF 16 | | | |

SECTOR ADDRESS COMPARE

START SECTOR ADDRESS

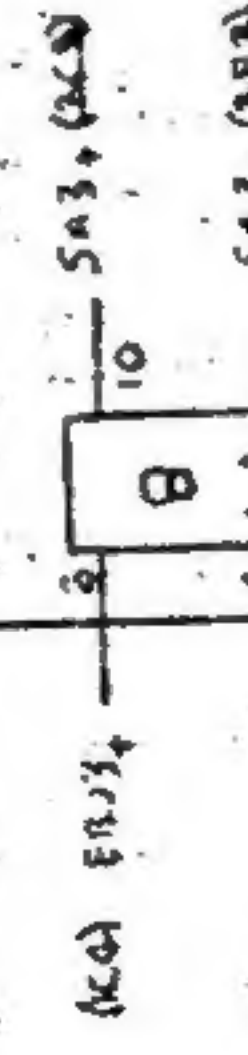
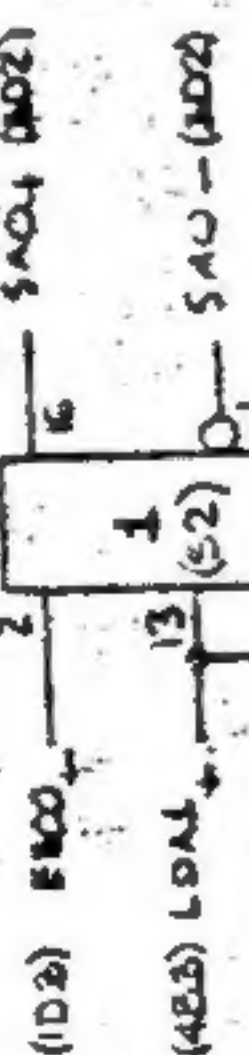
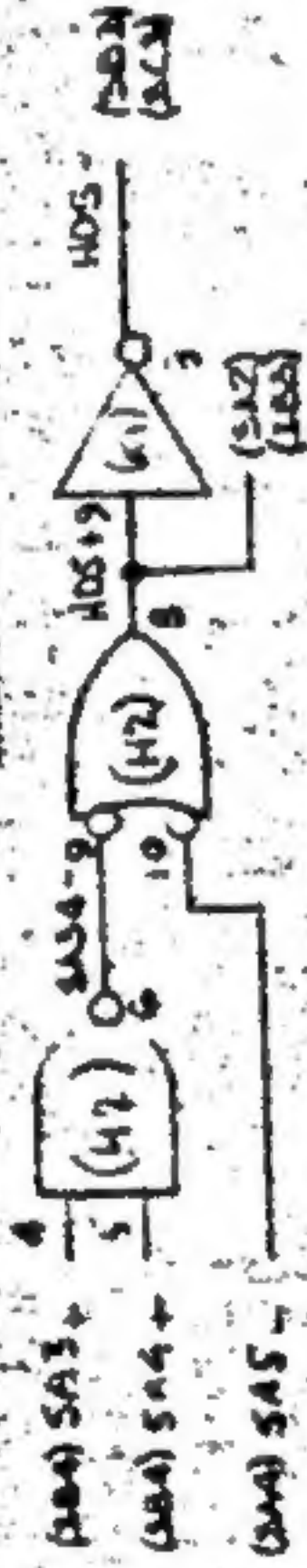


SECTOR ADDRESS COMPARE



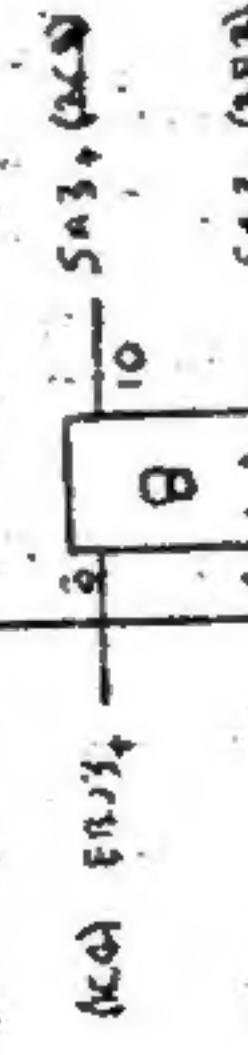
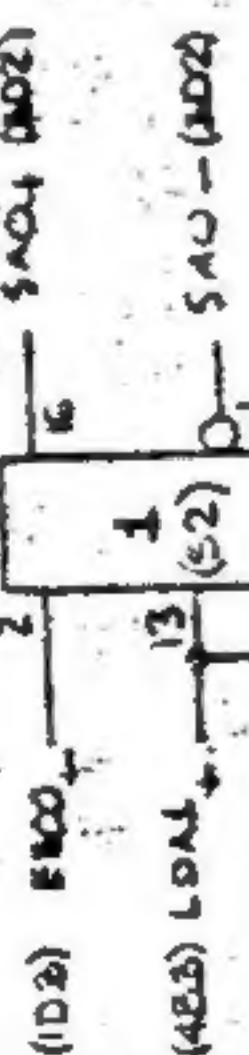
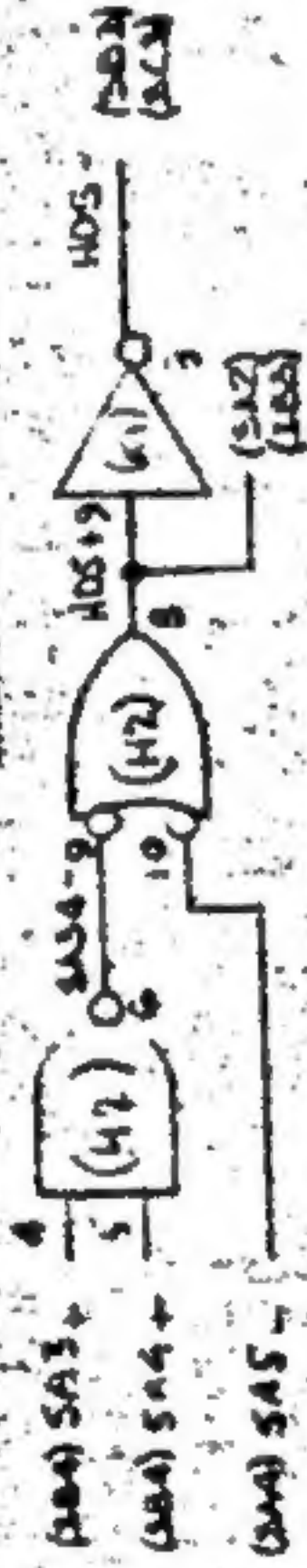
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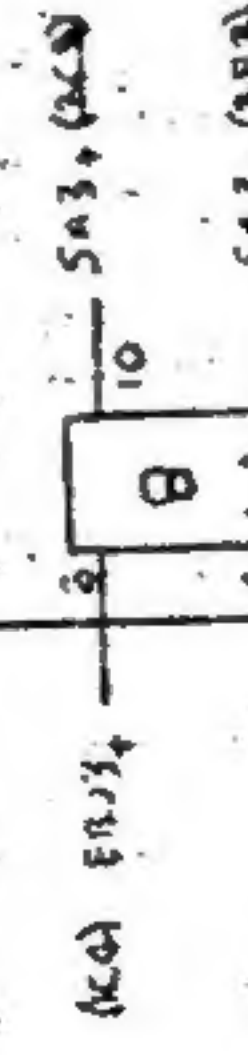
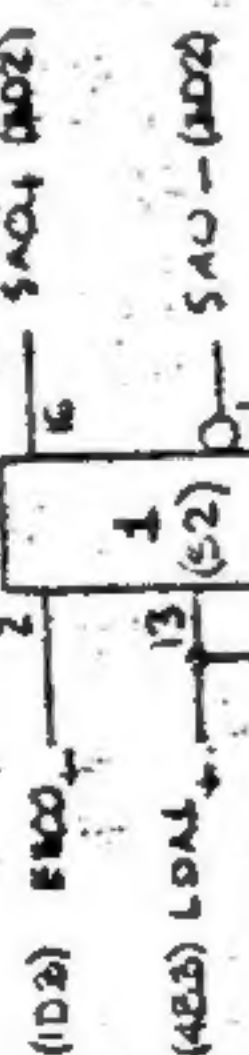
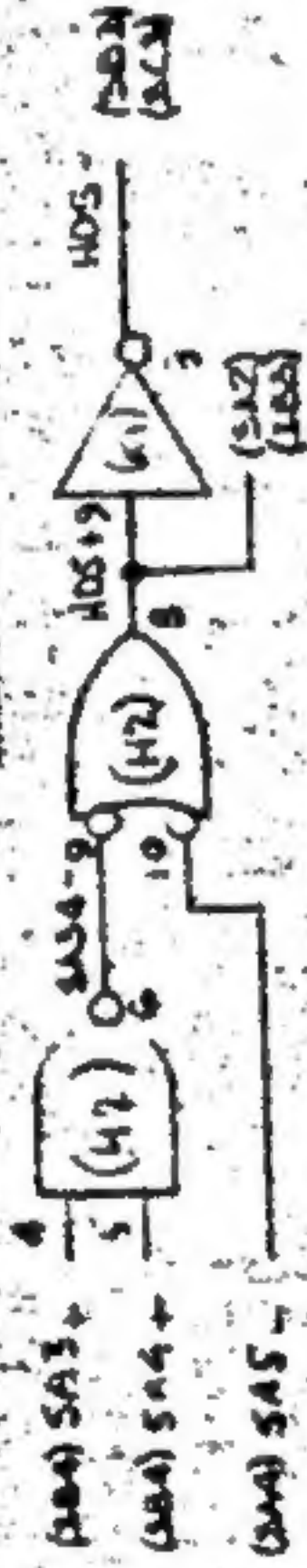
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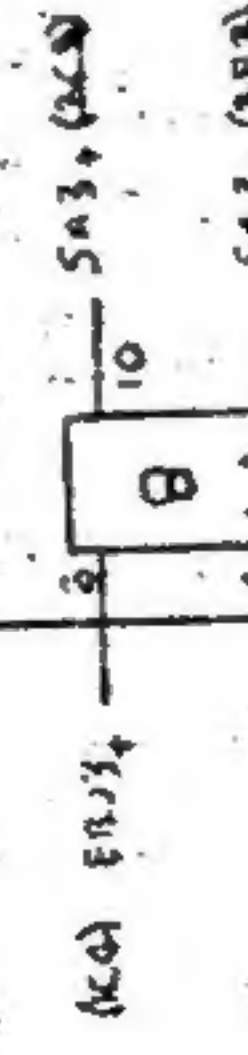
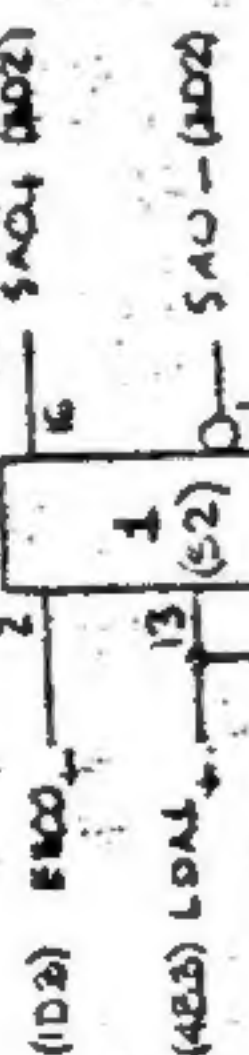
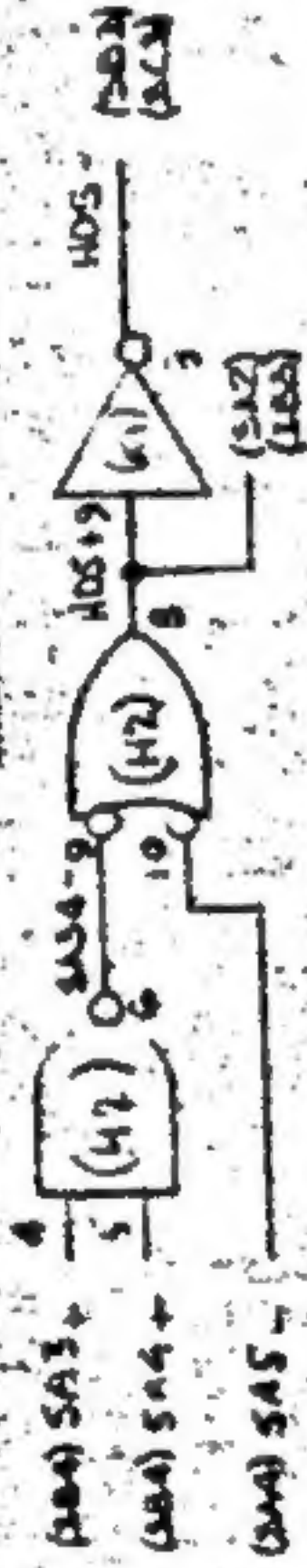
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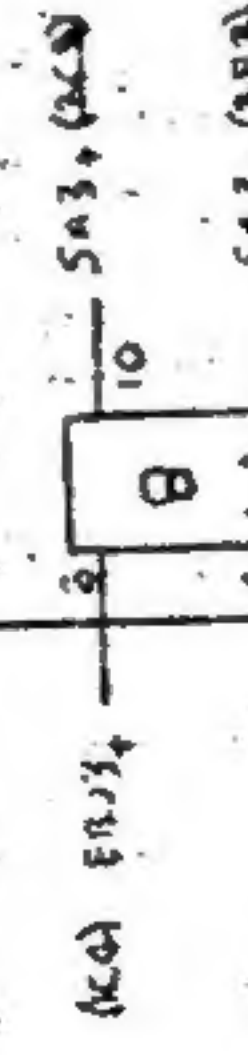
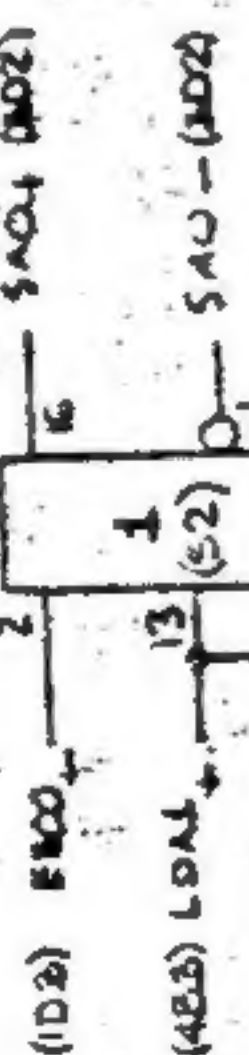
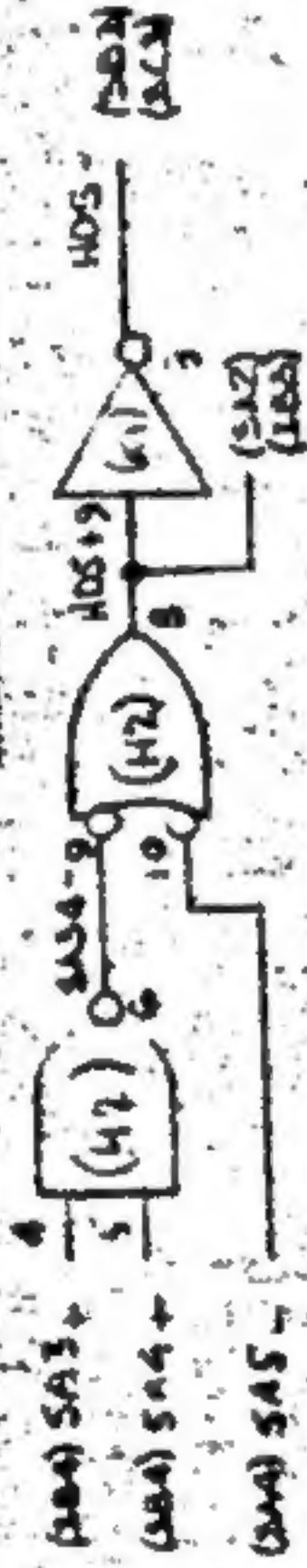
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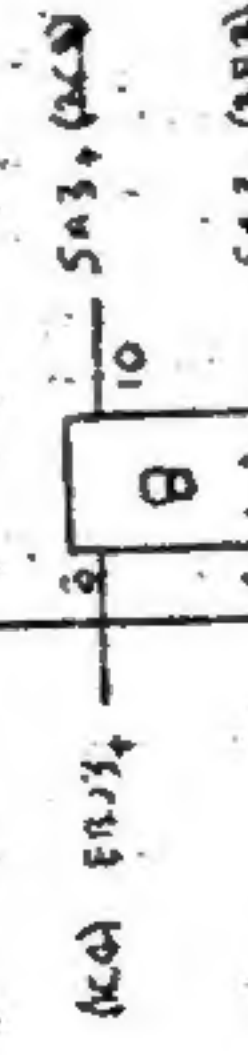
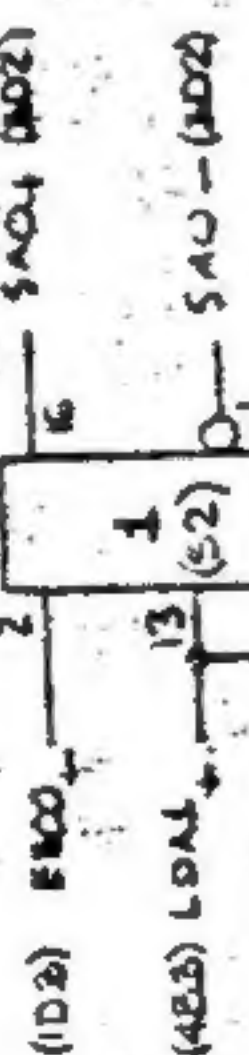
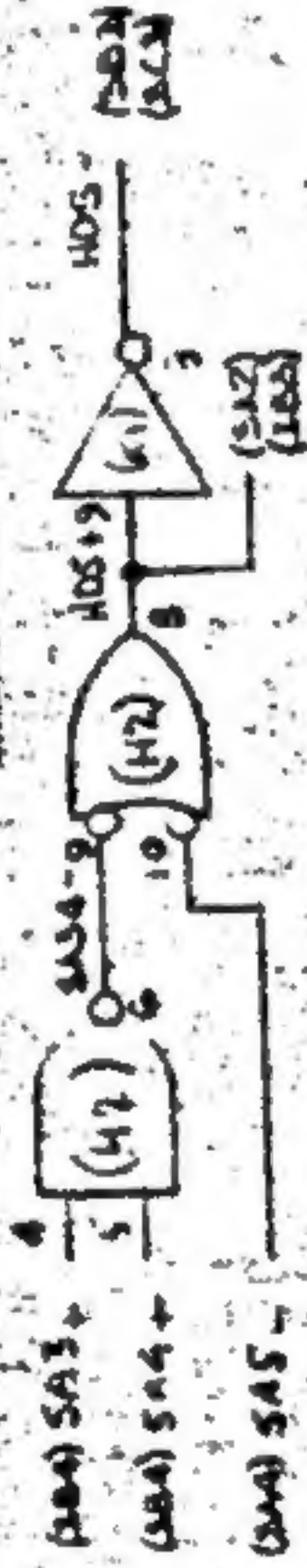
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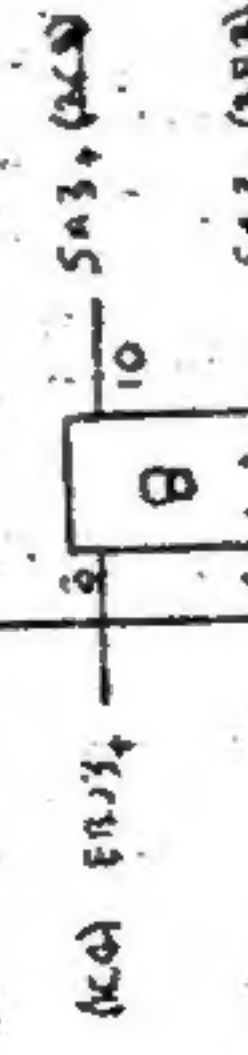
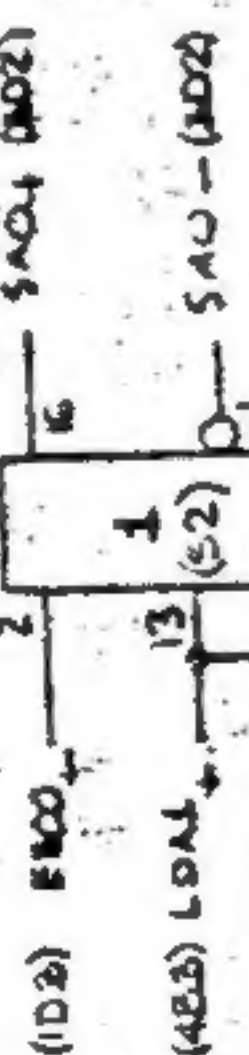
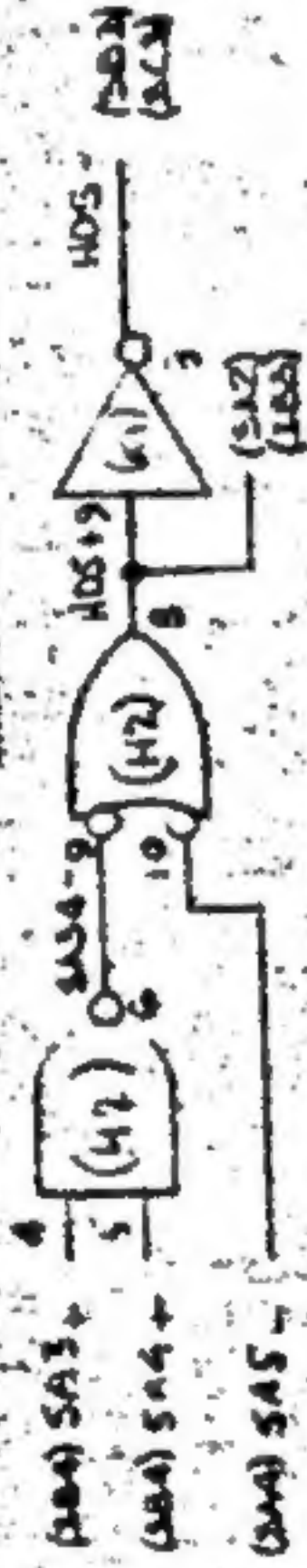
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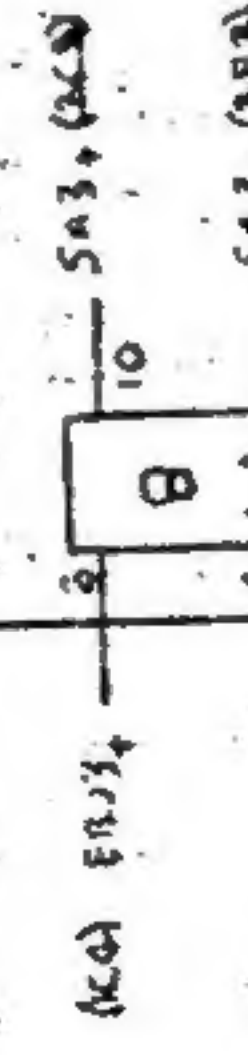
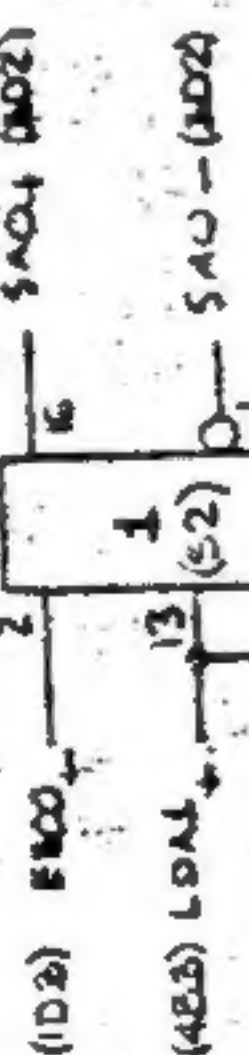
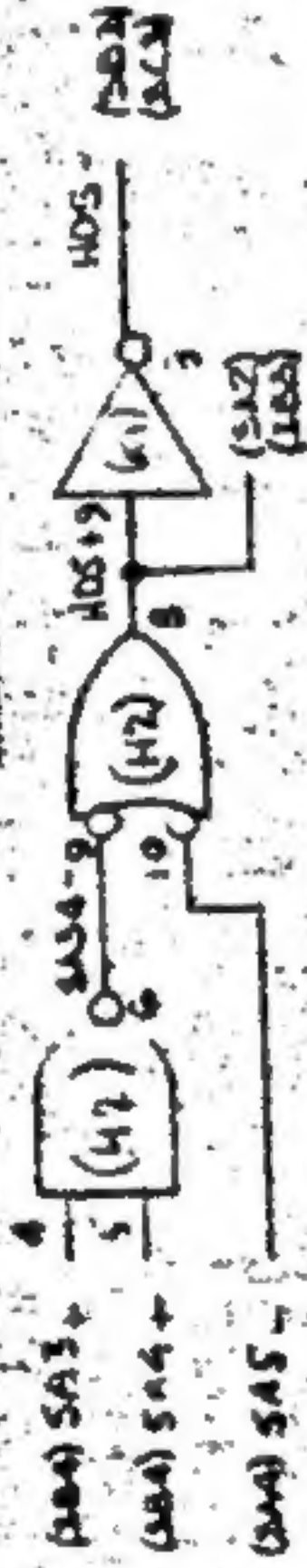
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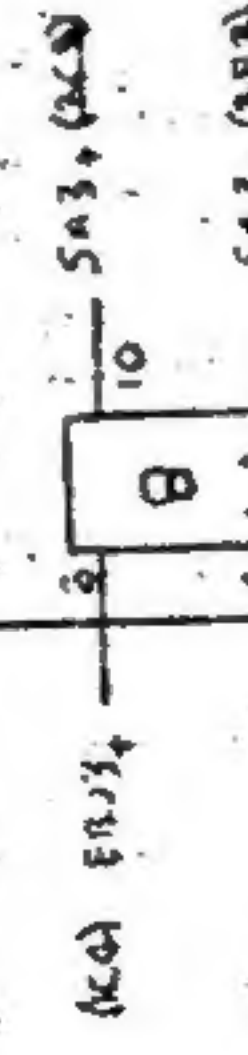
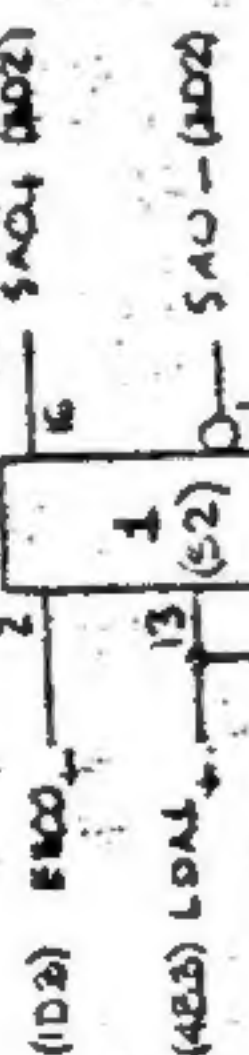
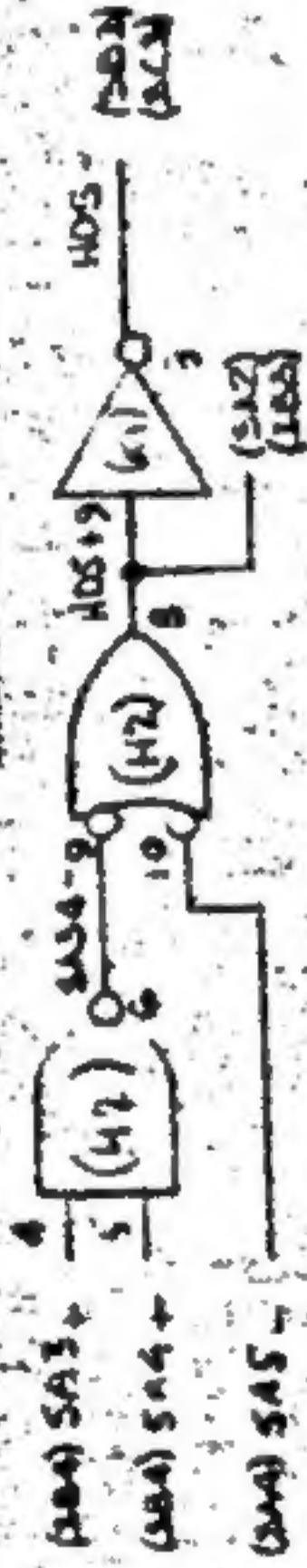
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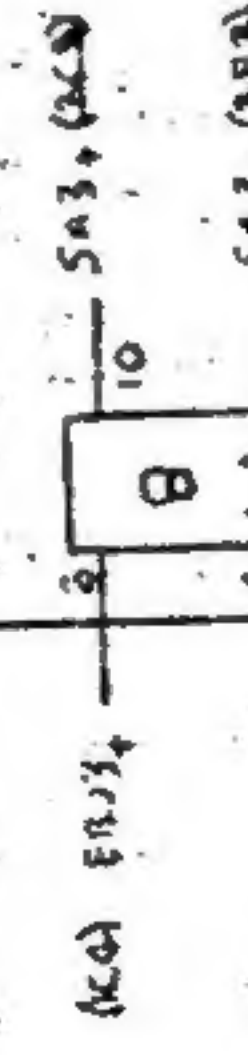
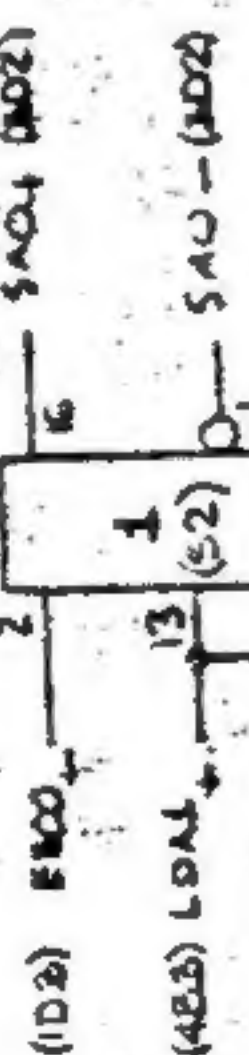
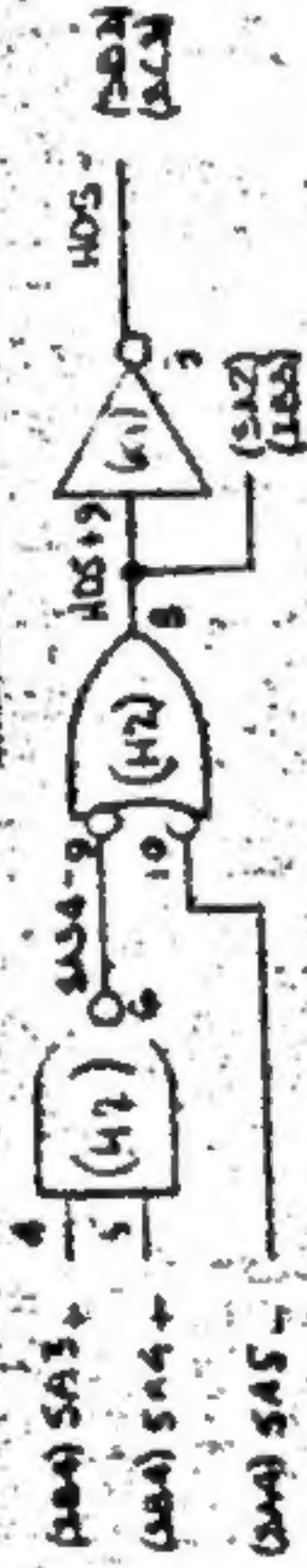
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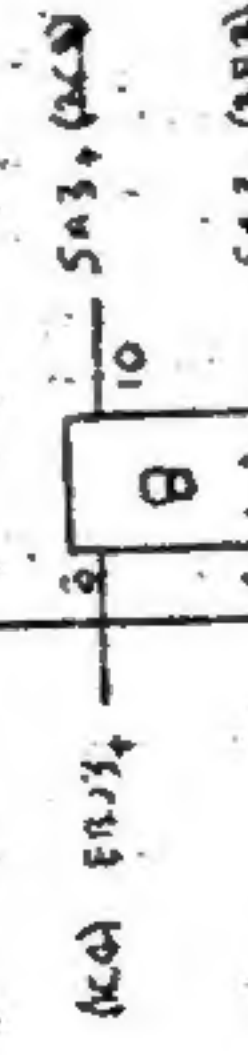
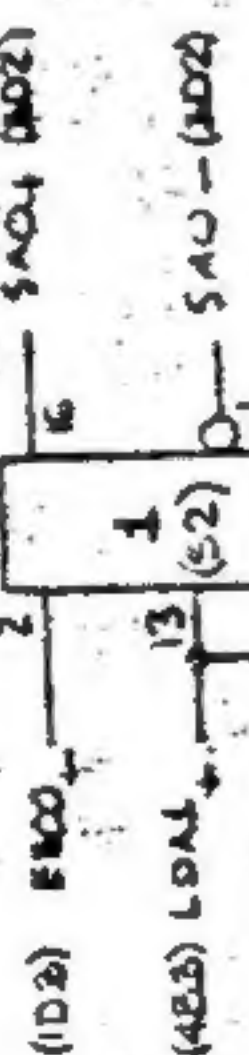
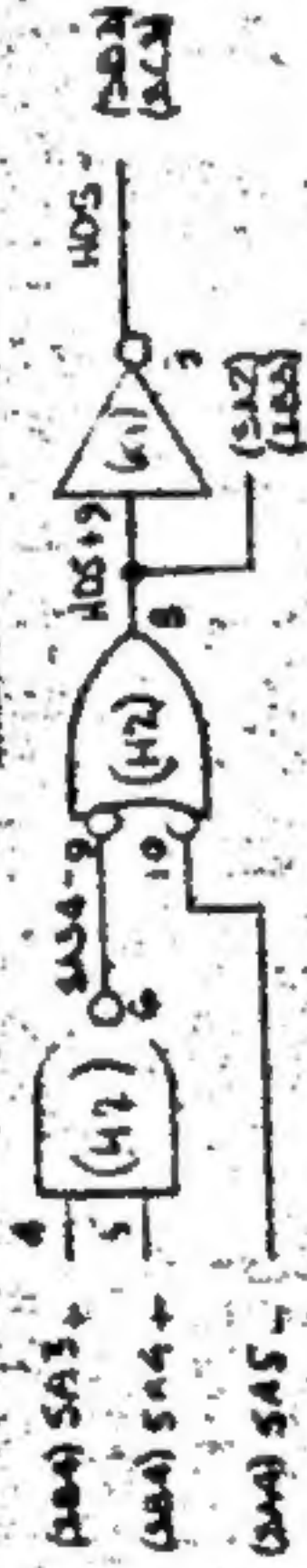
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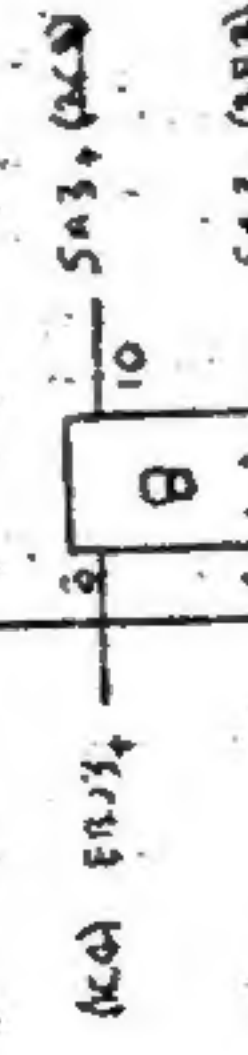
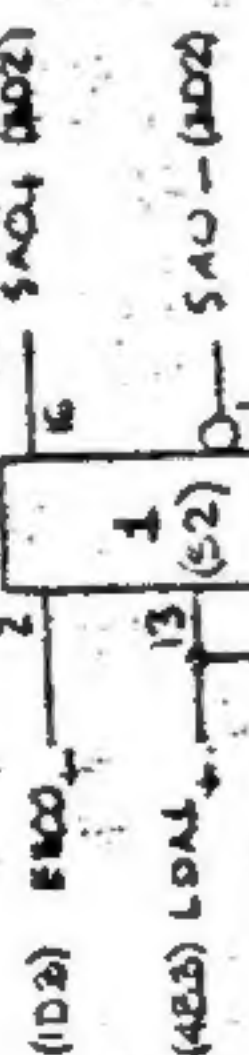
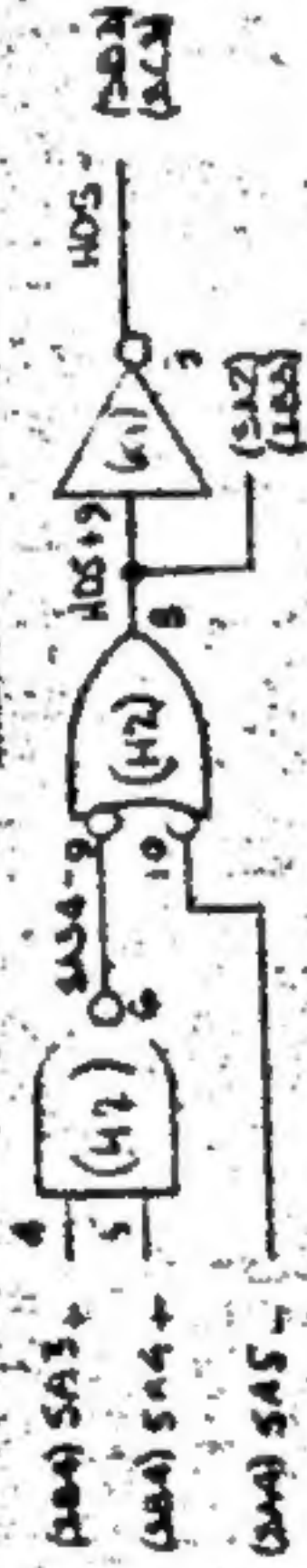
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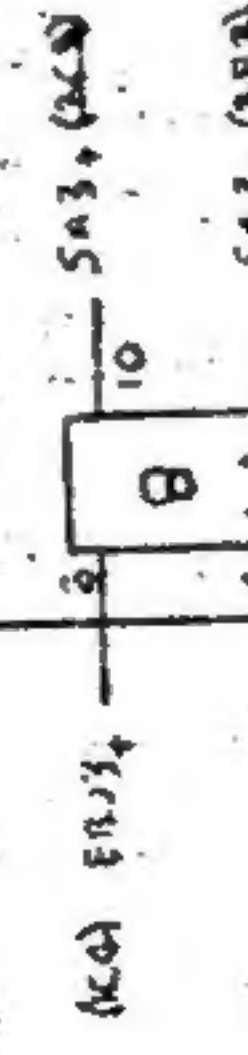
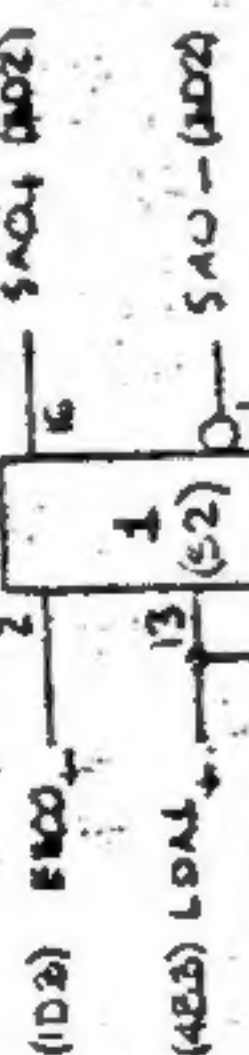
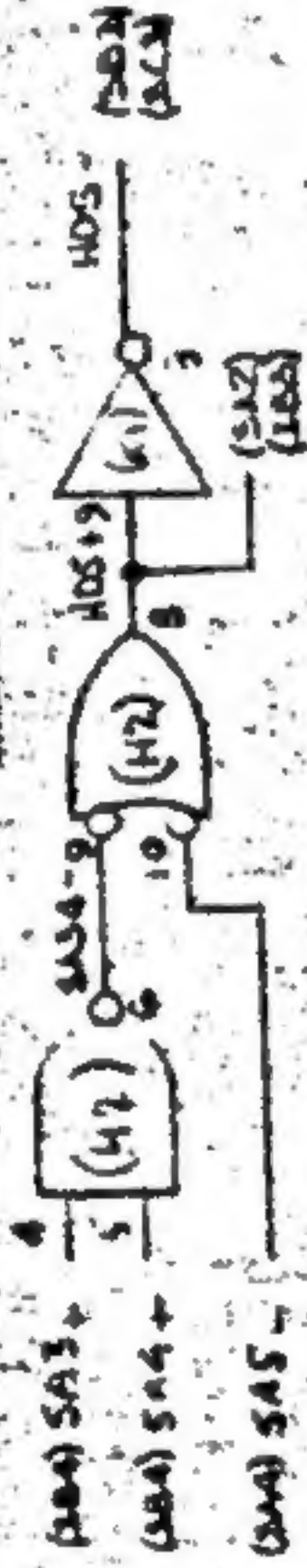
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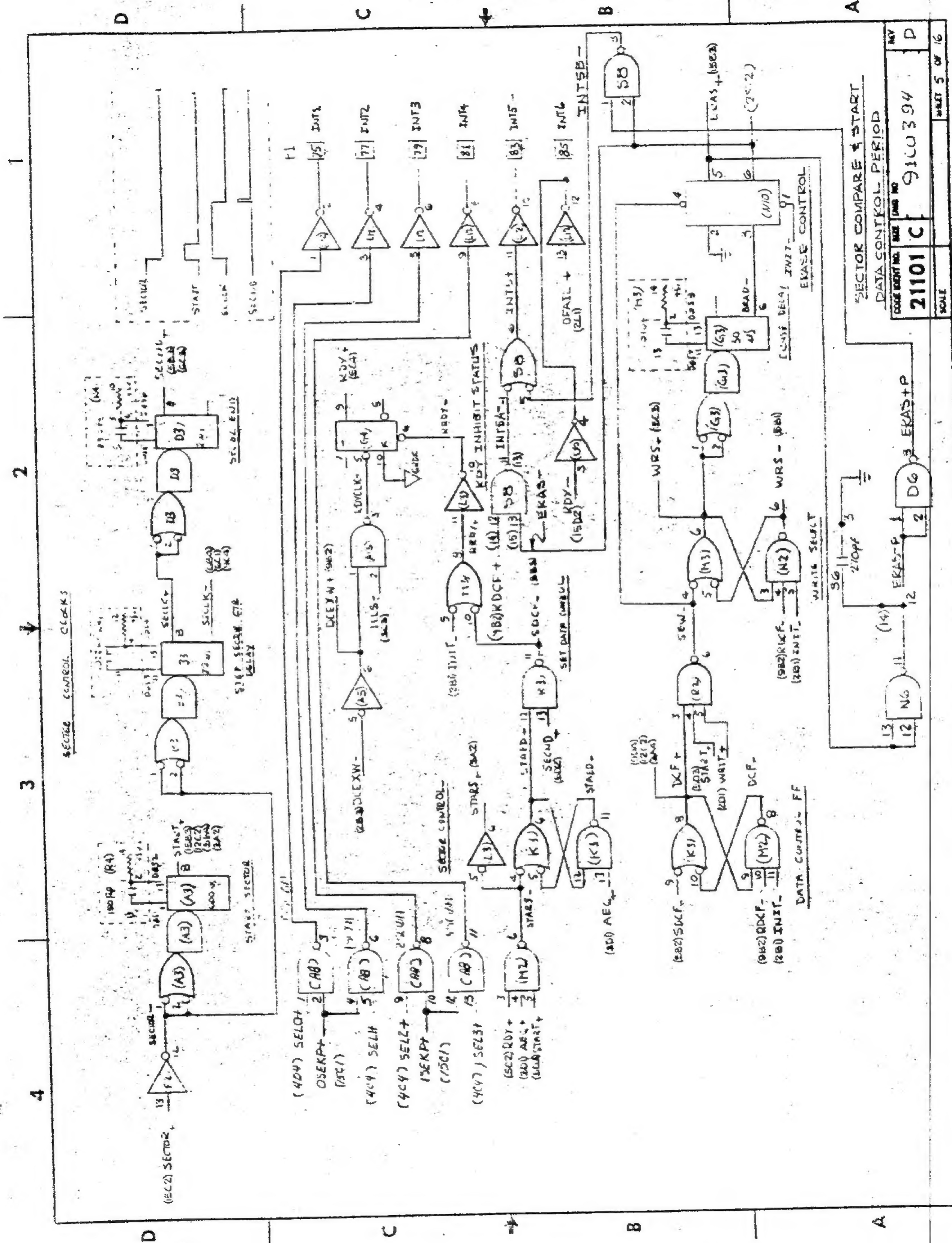
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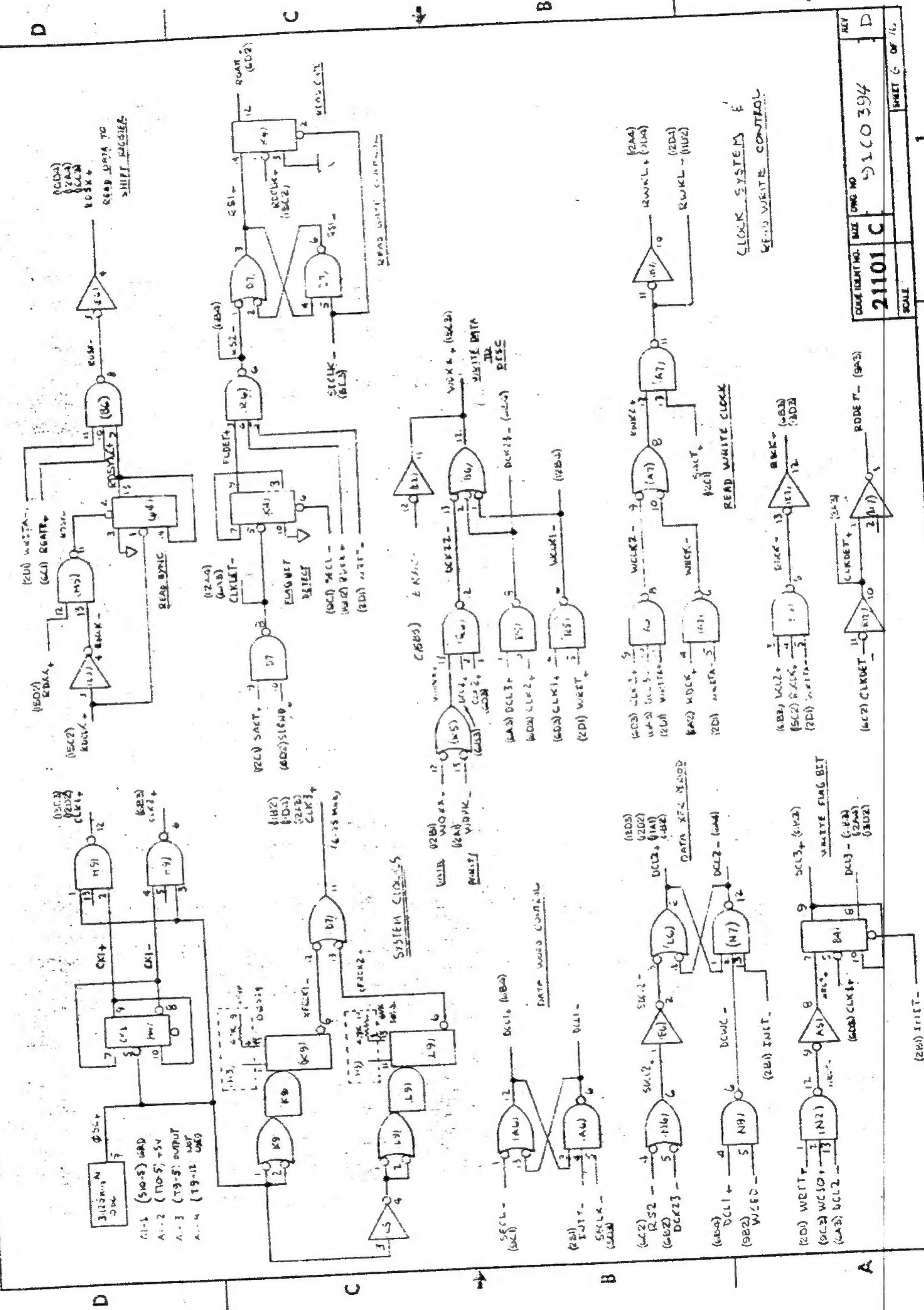


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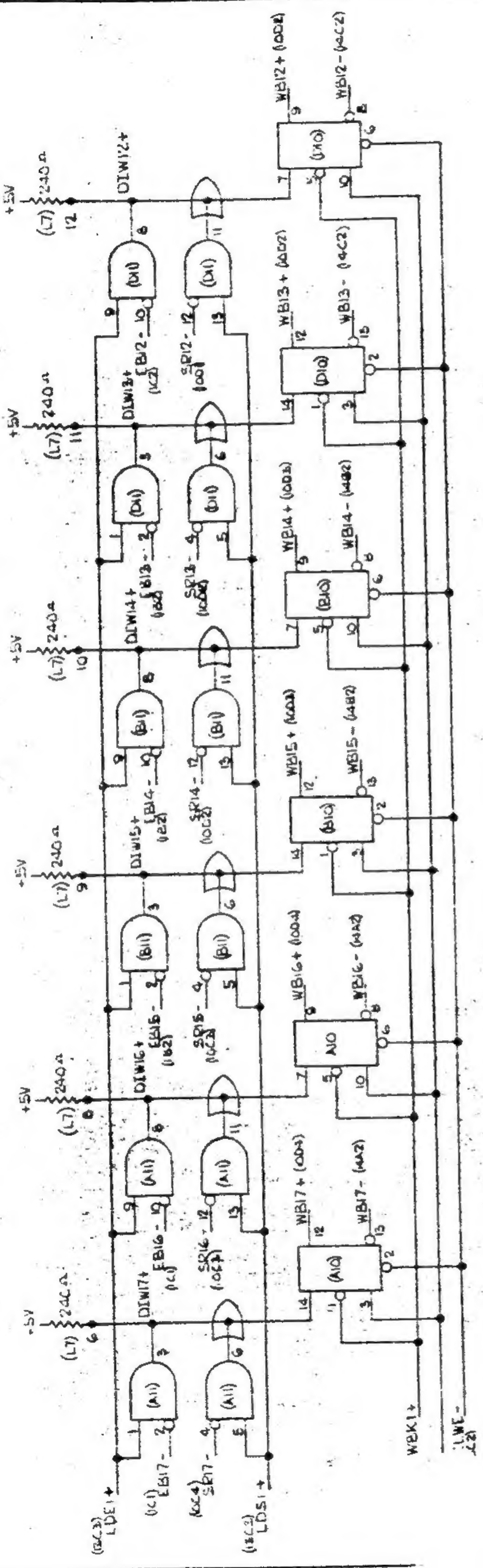




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| SHEET NO. | | | 1 | | |

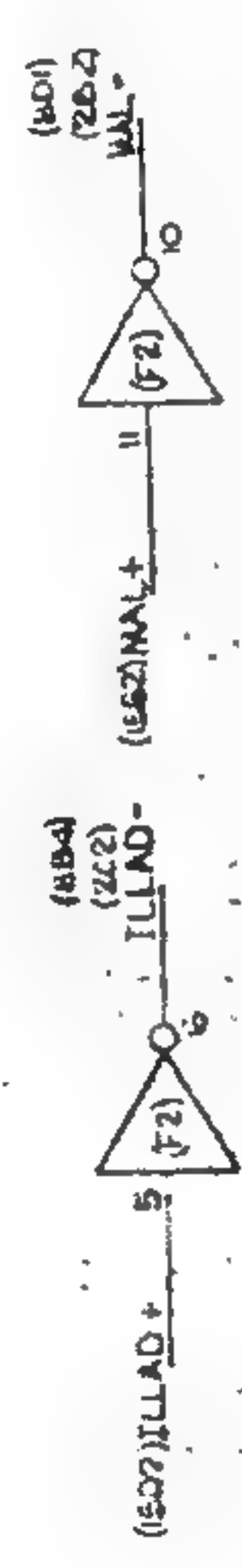
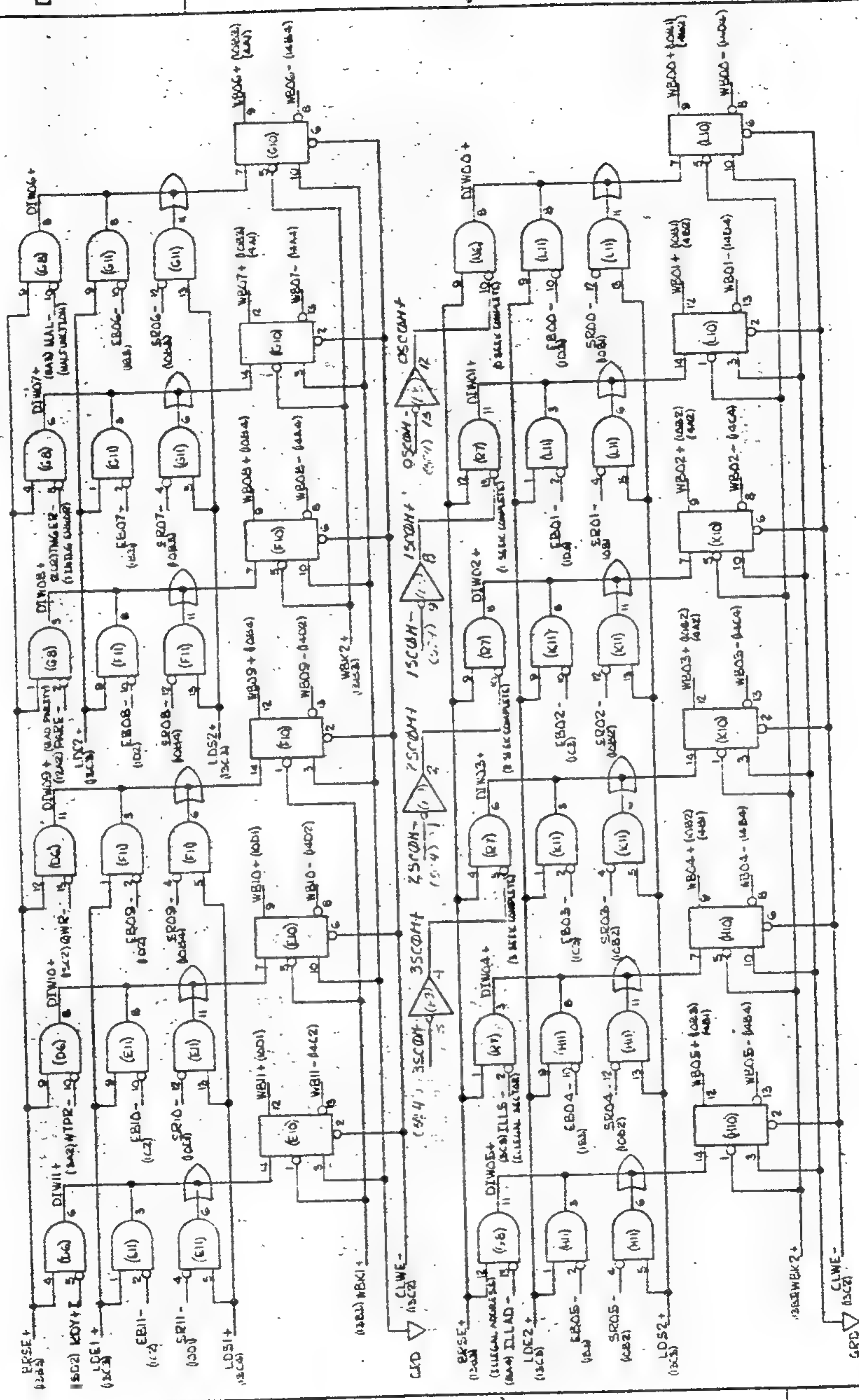
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| SHEET NO. 1 | | |

1 2 3 4



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|----------|-------|------|---|------|---------|-------|---------|
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| SCALE | | | | | | SHEET | 7 OF 16 |

1 2 3 4



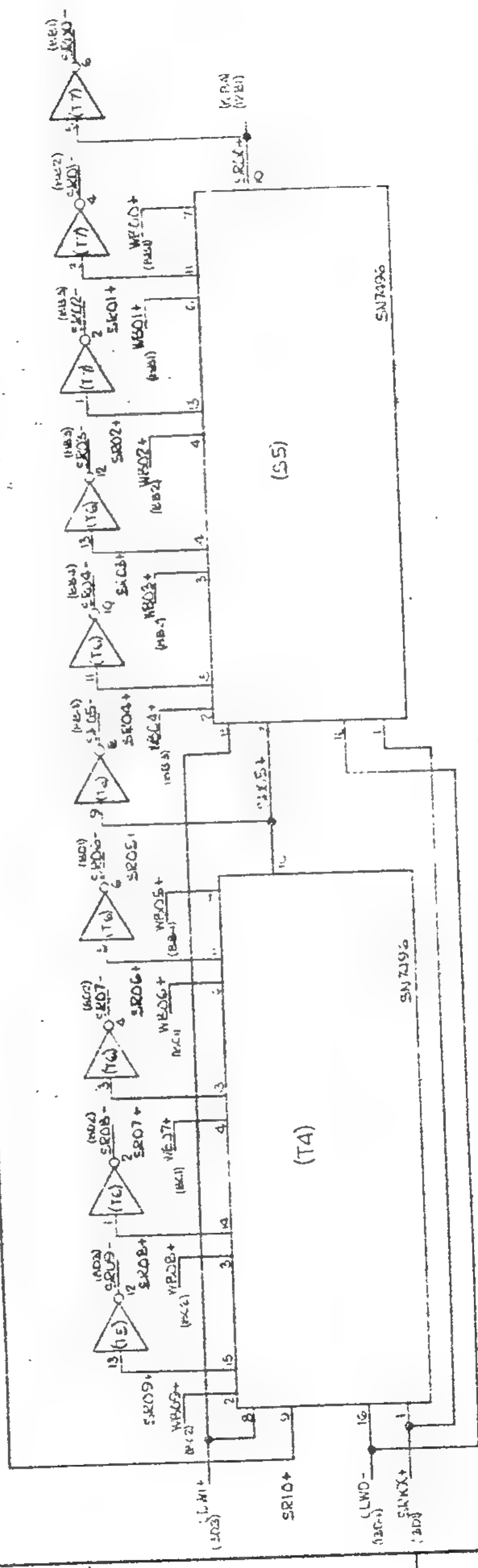
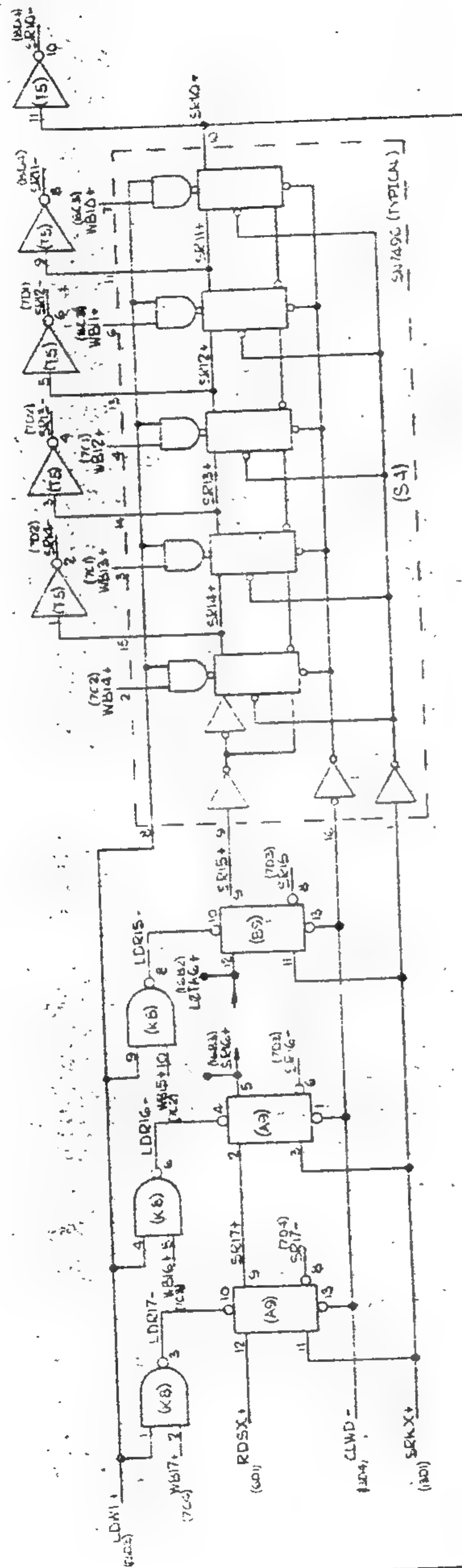
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| SHEET 5 OF 10 | | | | | | | 1 |

1

2

3

4

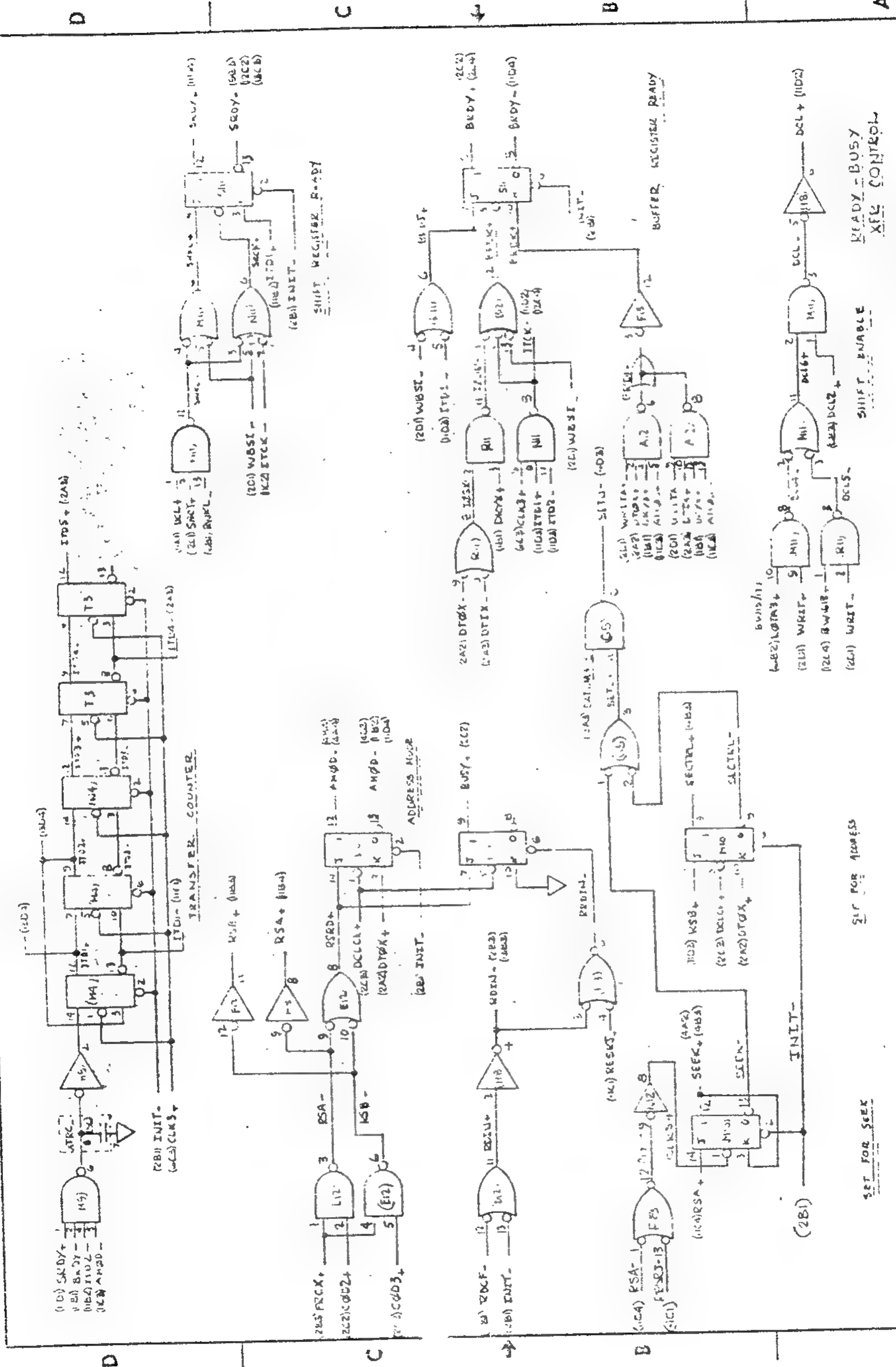


12 BIT DATA SHIFT REGISTER

| DATE | REV | SIZE | UNIT NO. | REV |
|-------|-----|---------|----------|-----|
| 21101 | C | 9100394 | | D |
| SCALE | | | | |
| | | | | |

SHEET 10 OF 16

1



1

2

3

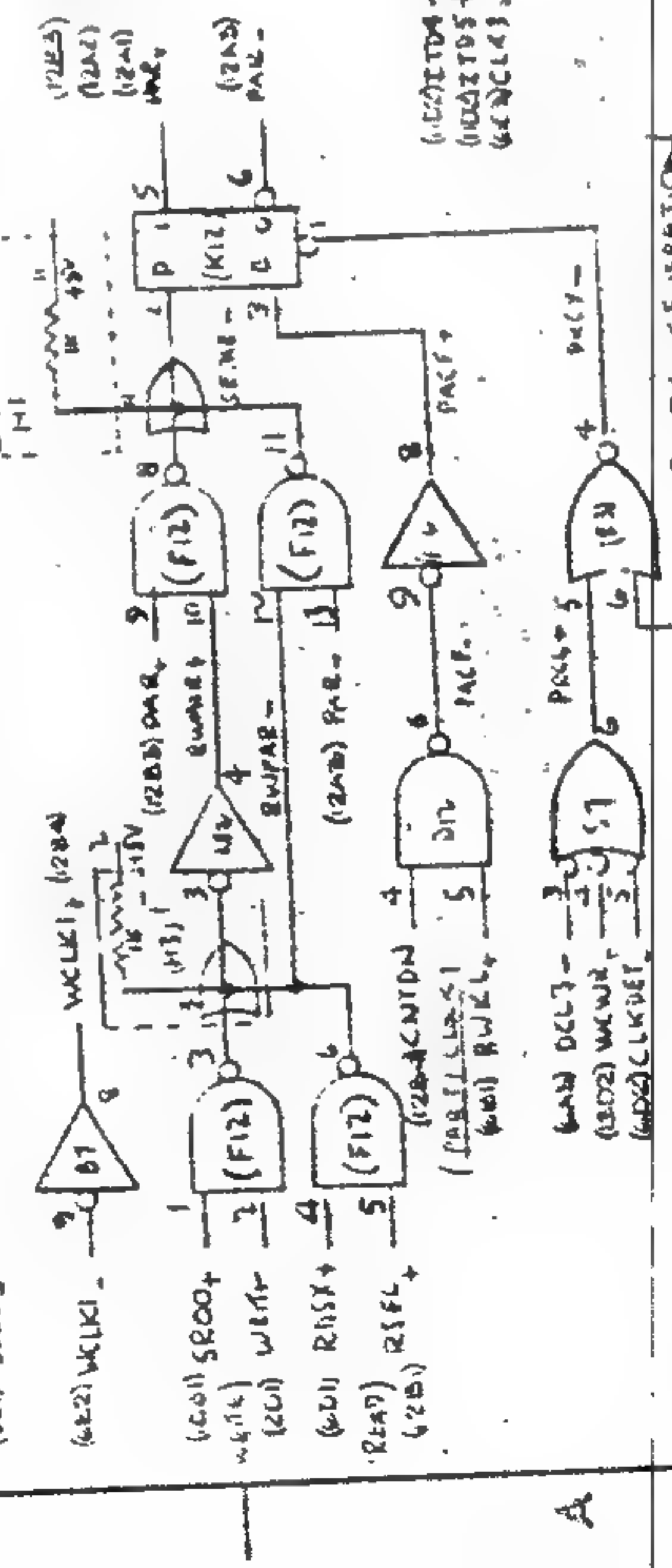
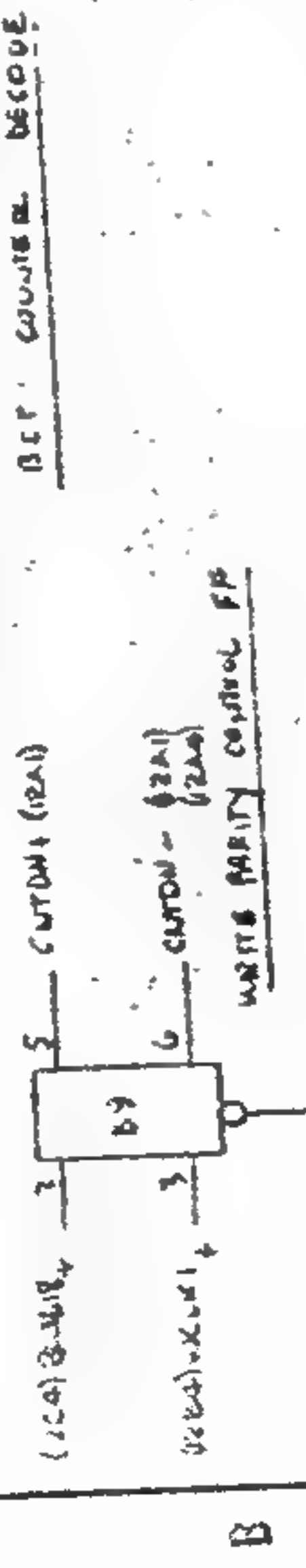
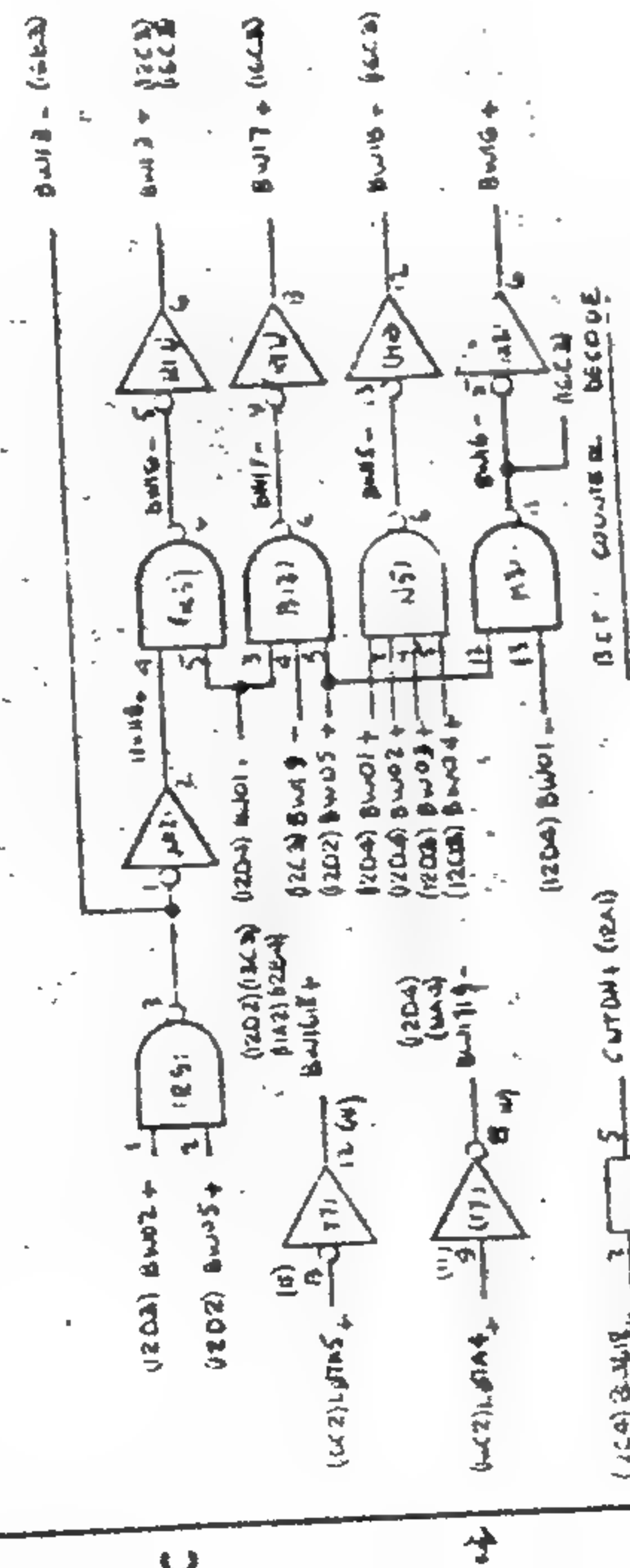
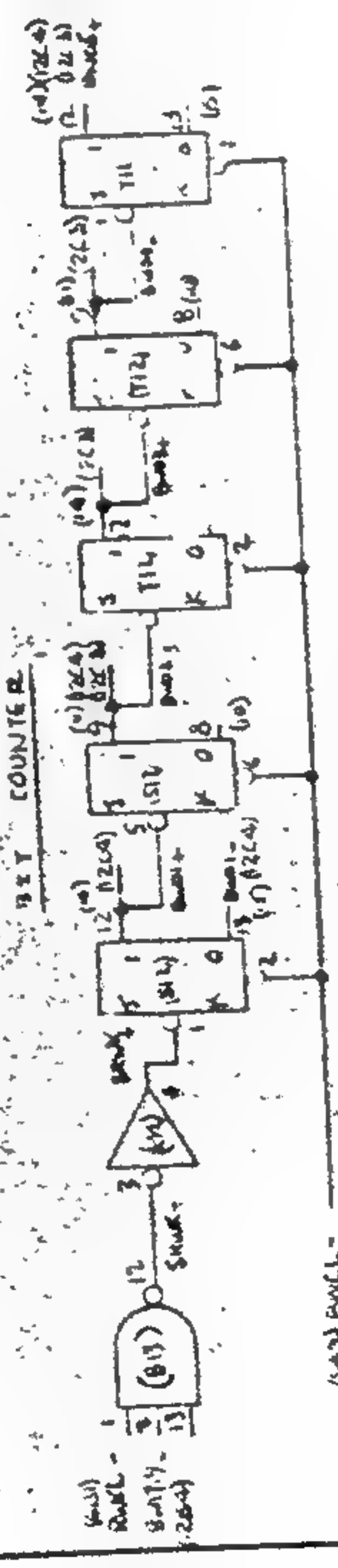
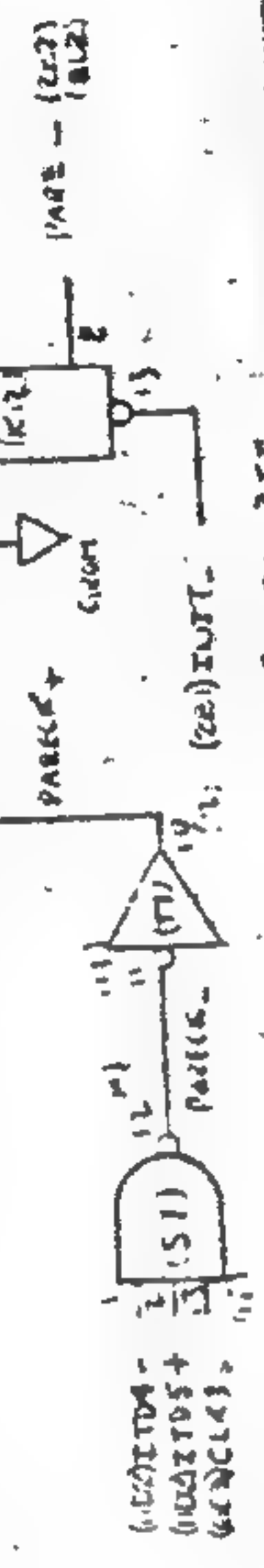
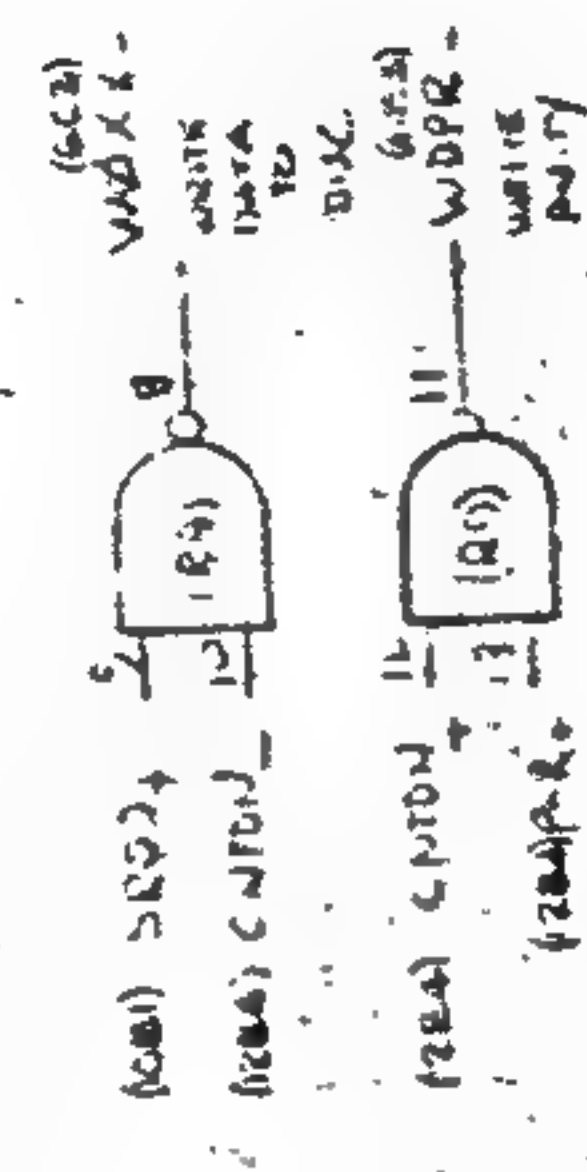
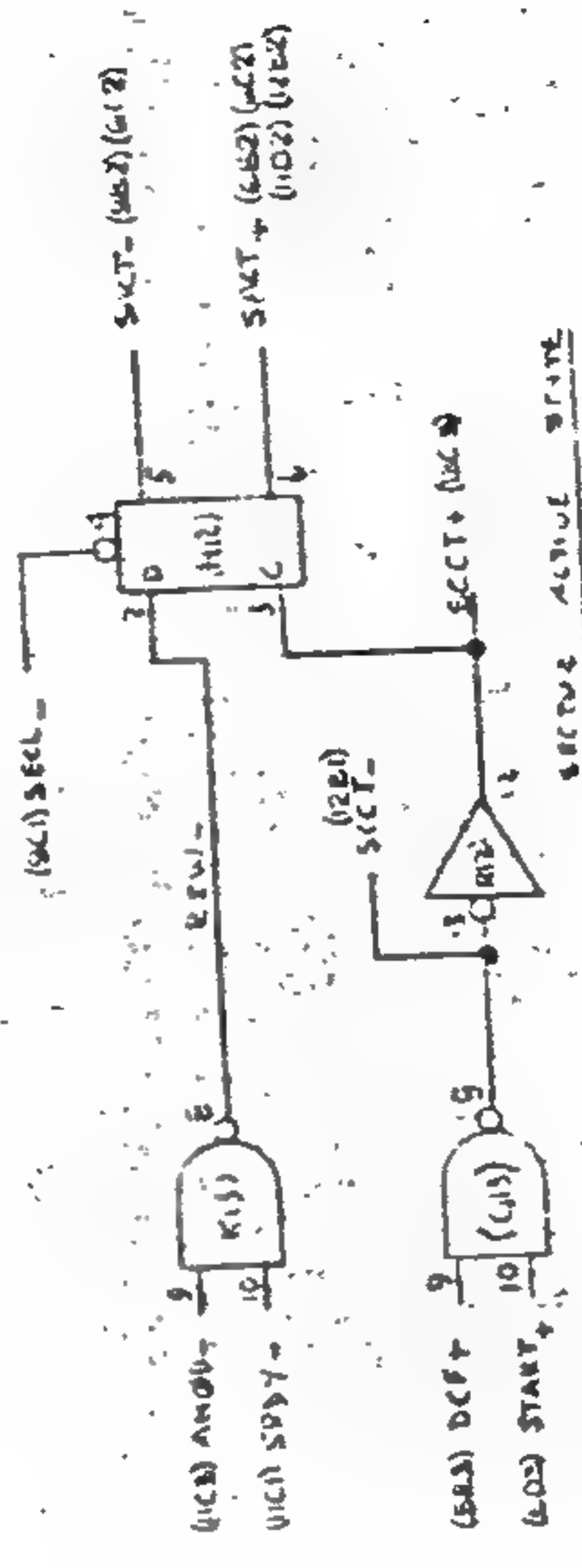
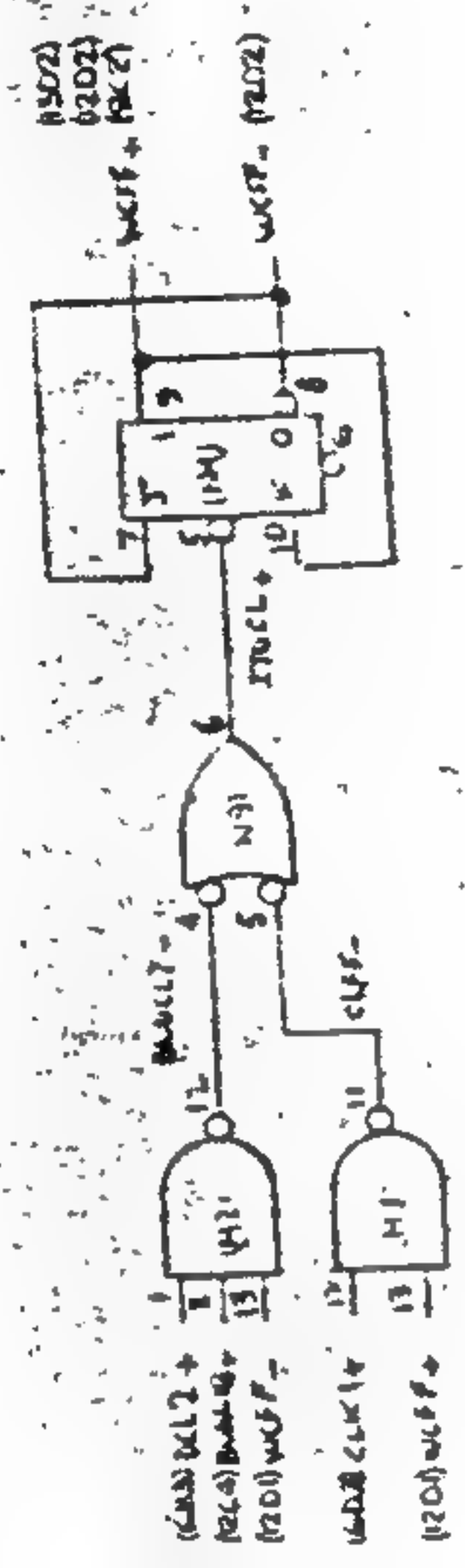
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D

C

B

A

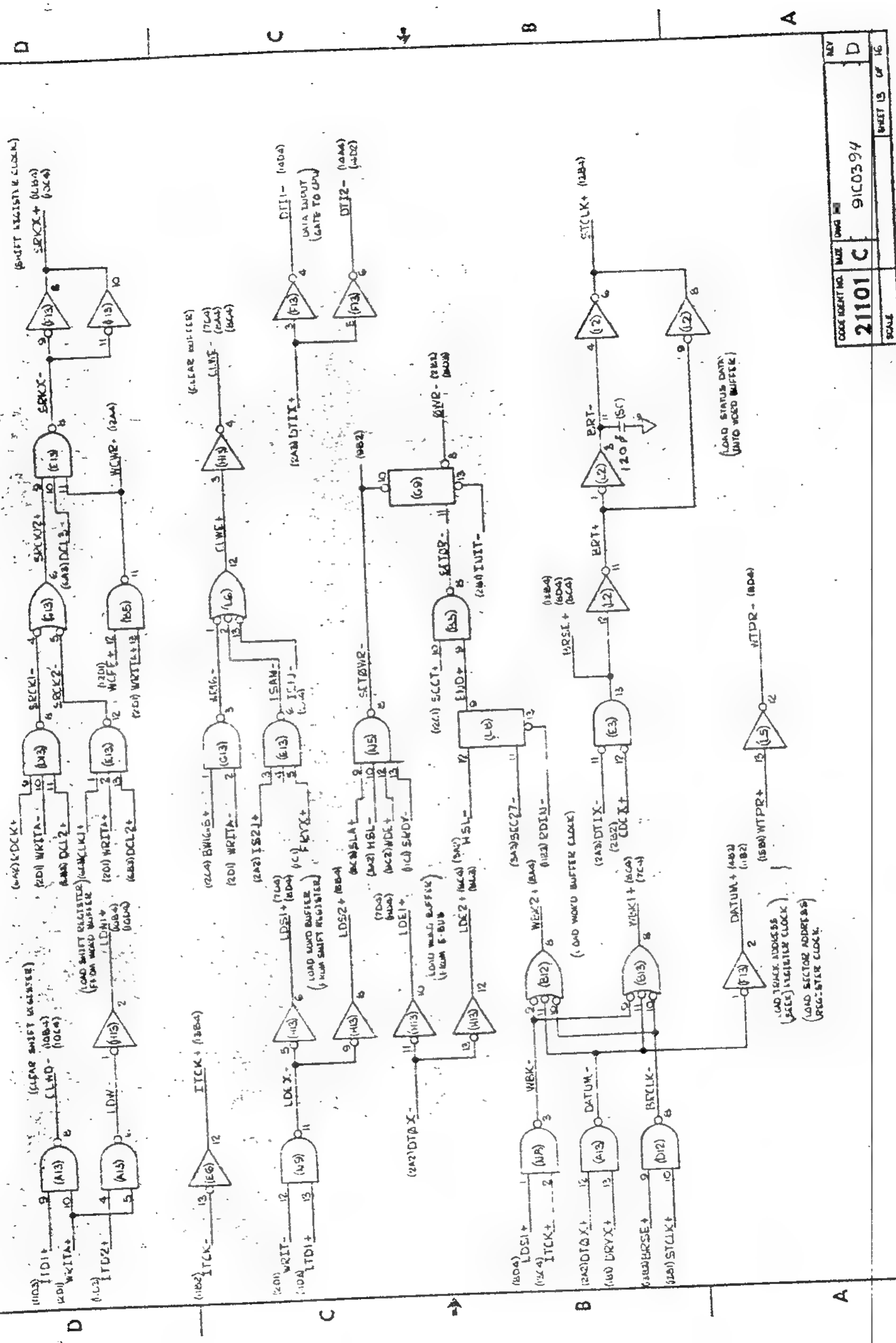


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| CODE IDENT NO. | 21101 C | DATE | 12 10 60 |
| SCALE | | | |

PARITY TEST
T1 100%
T2 100%
T3 100%

PARITY GENERATION

PARITY TEST



1

2

3

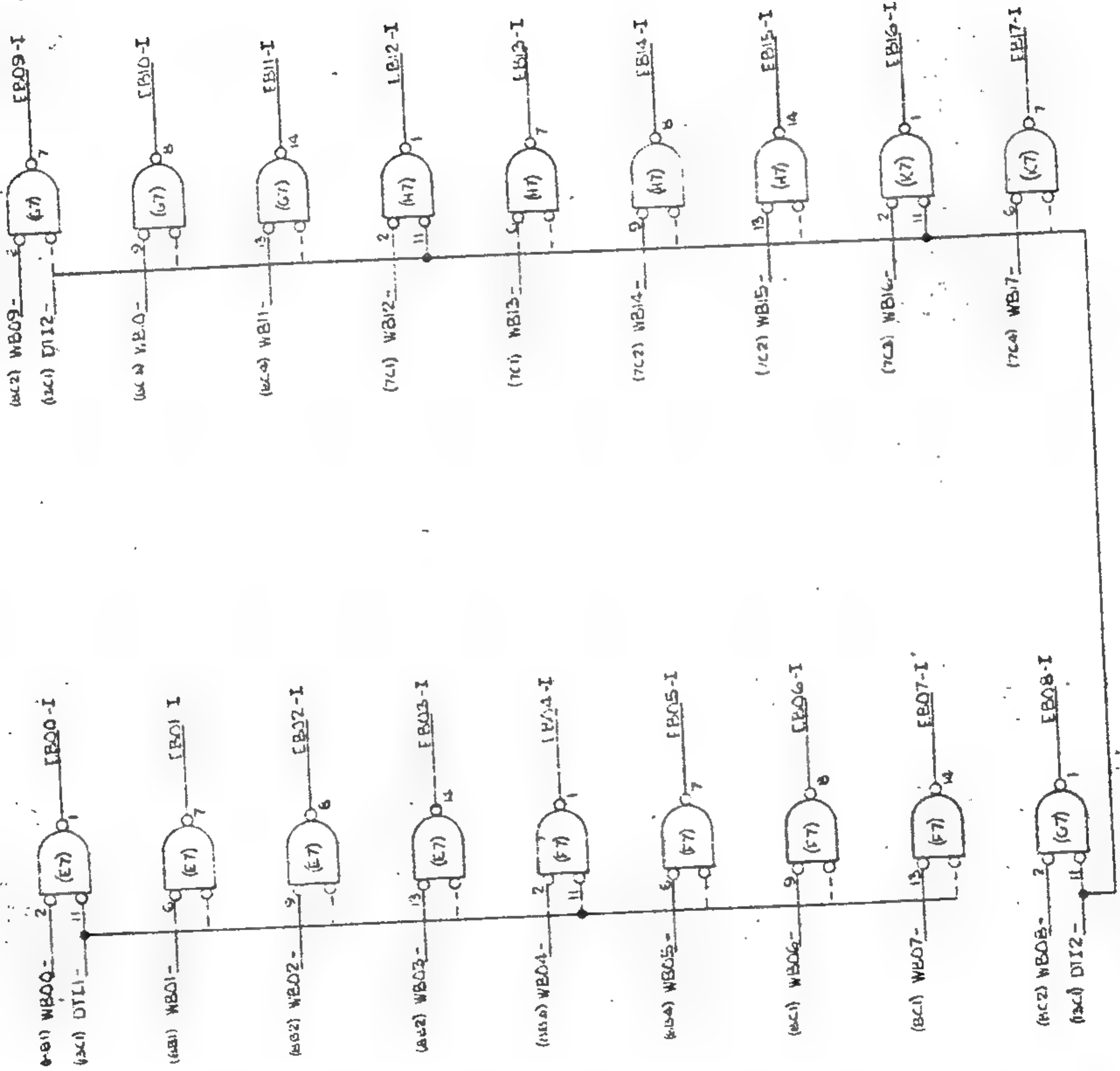
4

D

C

B

A



DATA TO CPU

| CODE | IDENT NO. | DATE | USER NO. | REV |
|-------|-----------|------|----------|----------------|
| 21101 | C | | 910394 | D |
| SCALE | | | | SHEET 14 OF 16 |

1. BUS TIE POINTS IN SHEET 1
 GROUND IS ON PINS 10, 15 ON PBA-4 AND +3 ON PIN 5
 PIN 11 IS COMMON TO ALL GATES ON CHIP
 NOTE: IC'S ARE MC4042P (OR GATES)

2

1

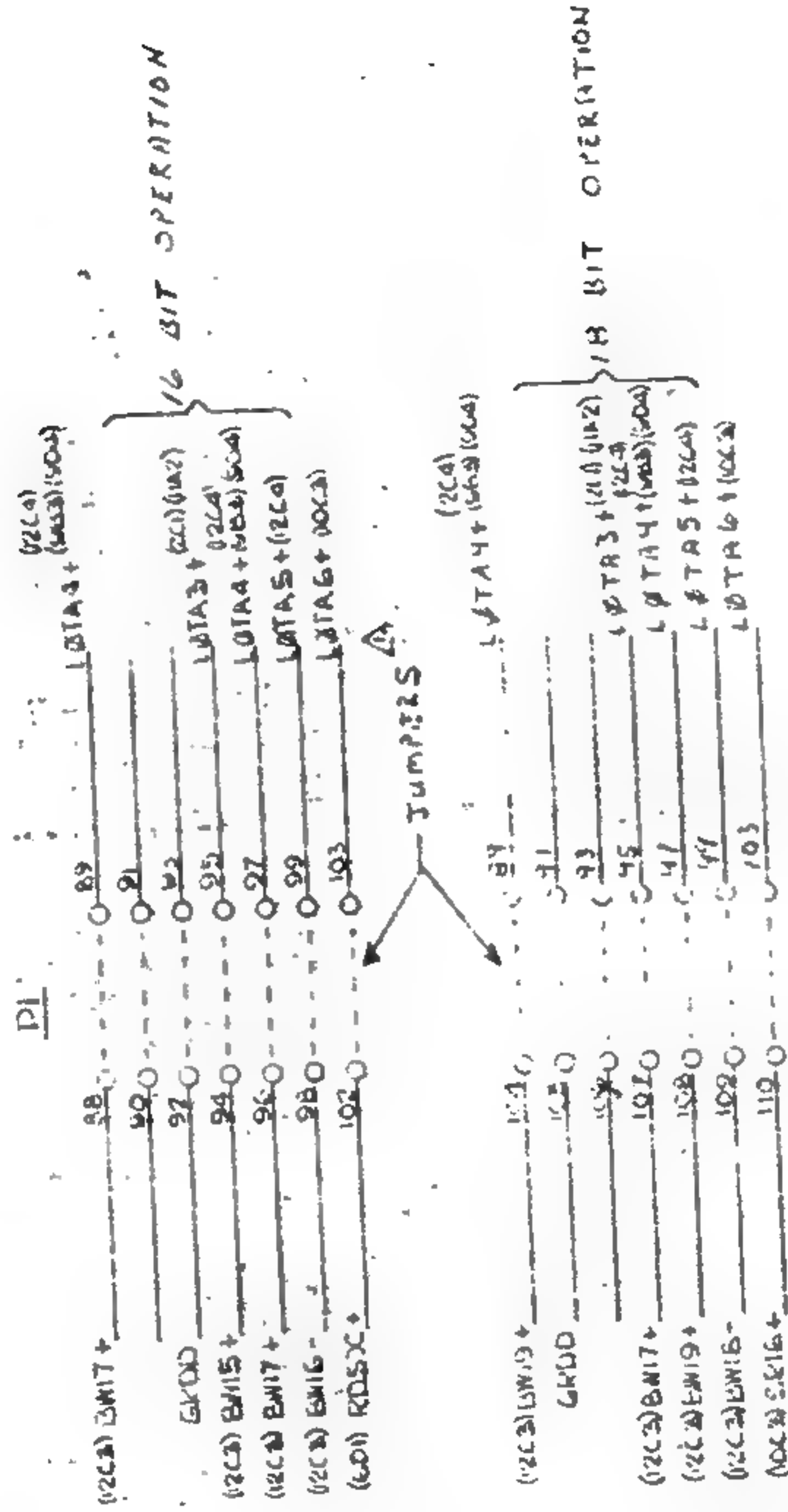
A

B

C

D

16 OR 18 BIT WORD SELECTION

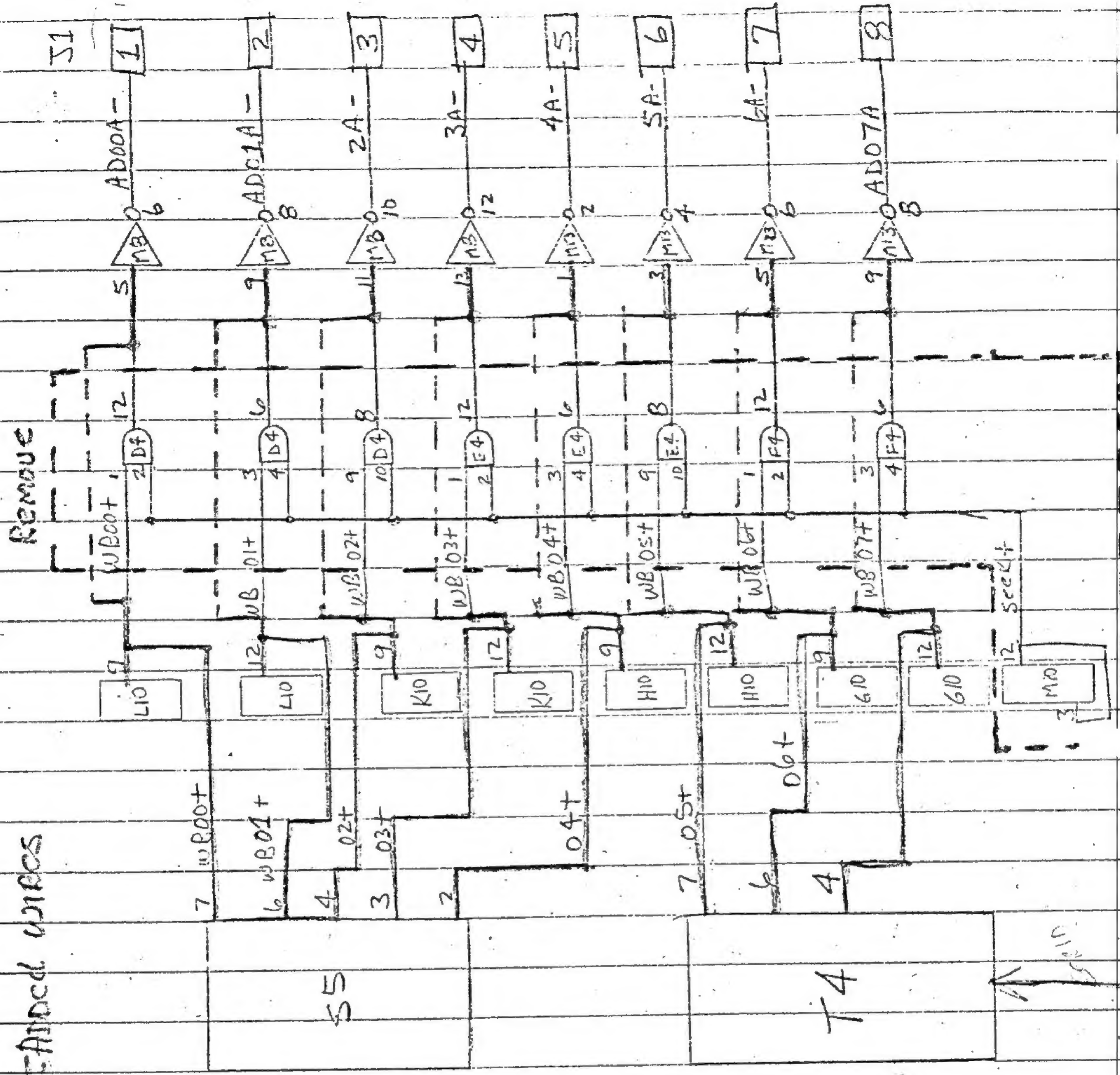


△ JUMPERS ADDED IN TEST H. REQUIRED PER CIRCUIT

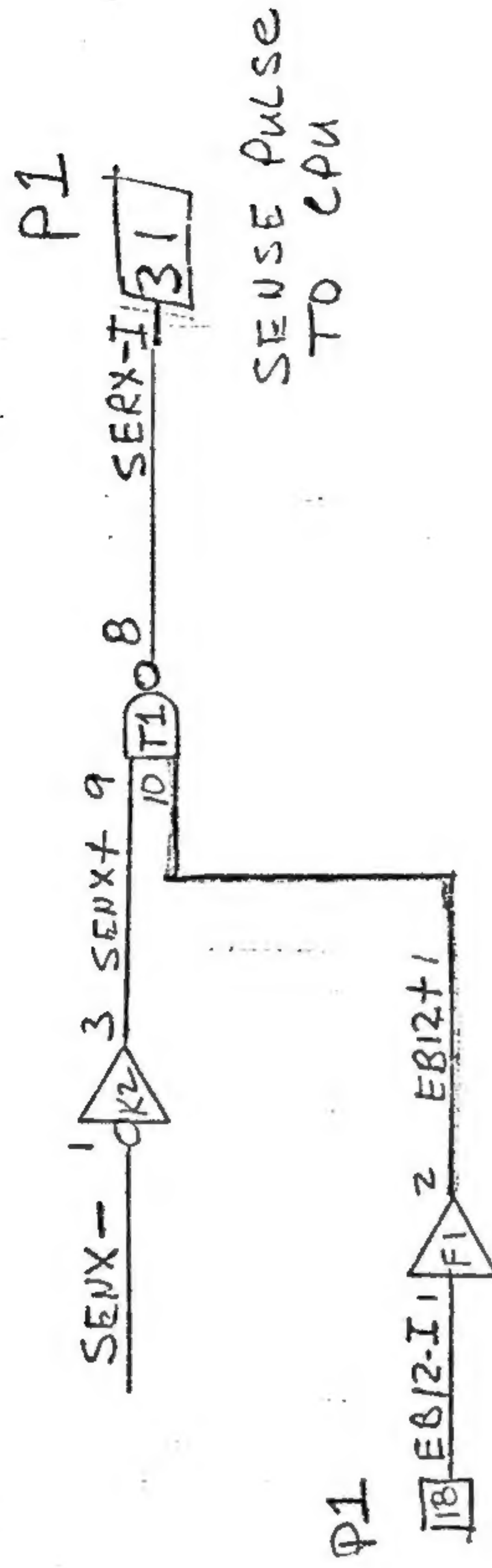
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|---------------|------|----------|----------------|
| COULICENT NO. | NAME | UNIT NO. | REV |
| 21101 | C | 9100394 | D |
| SCALE | | | SHEET 16 OF 16 |

① Red indicates ~~the~~ fired wires

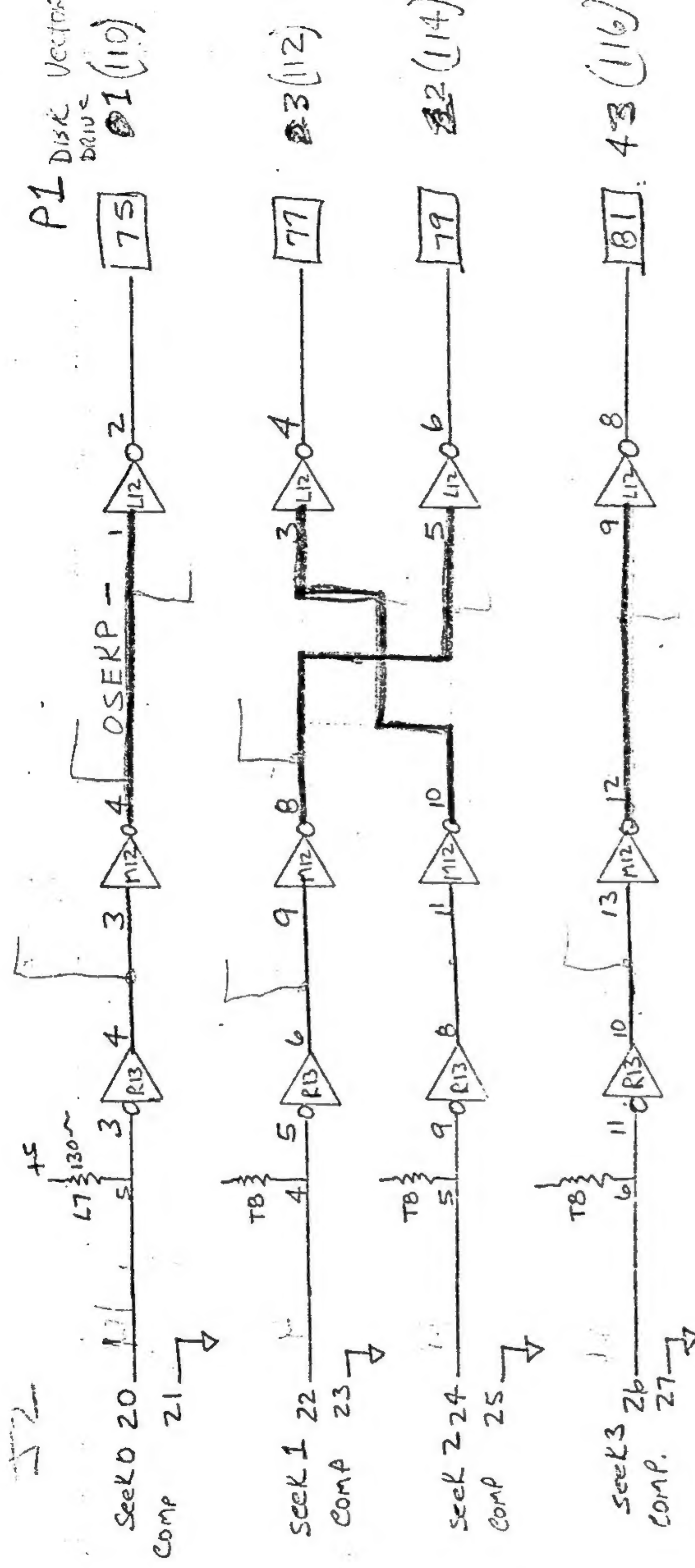
① Red indicates ~~the~~ fired wires



(1) Red indicates Added wires



1 0 2 3
Disk
V152
52

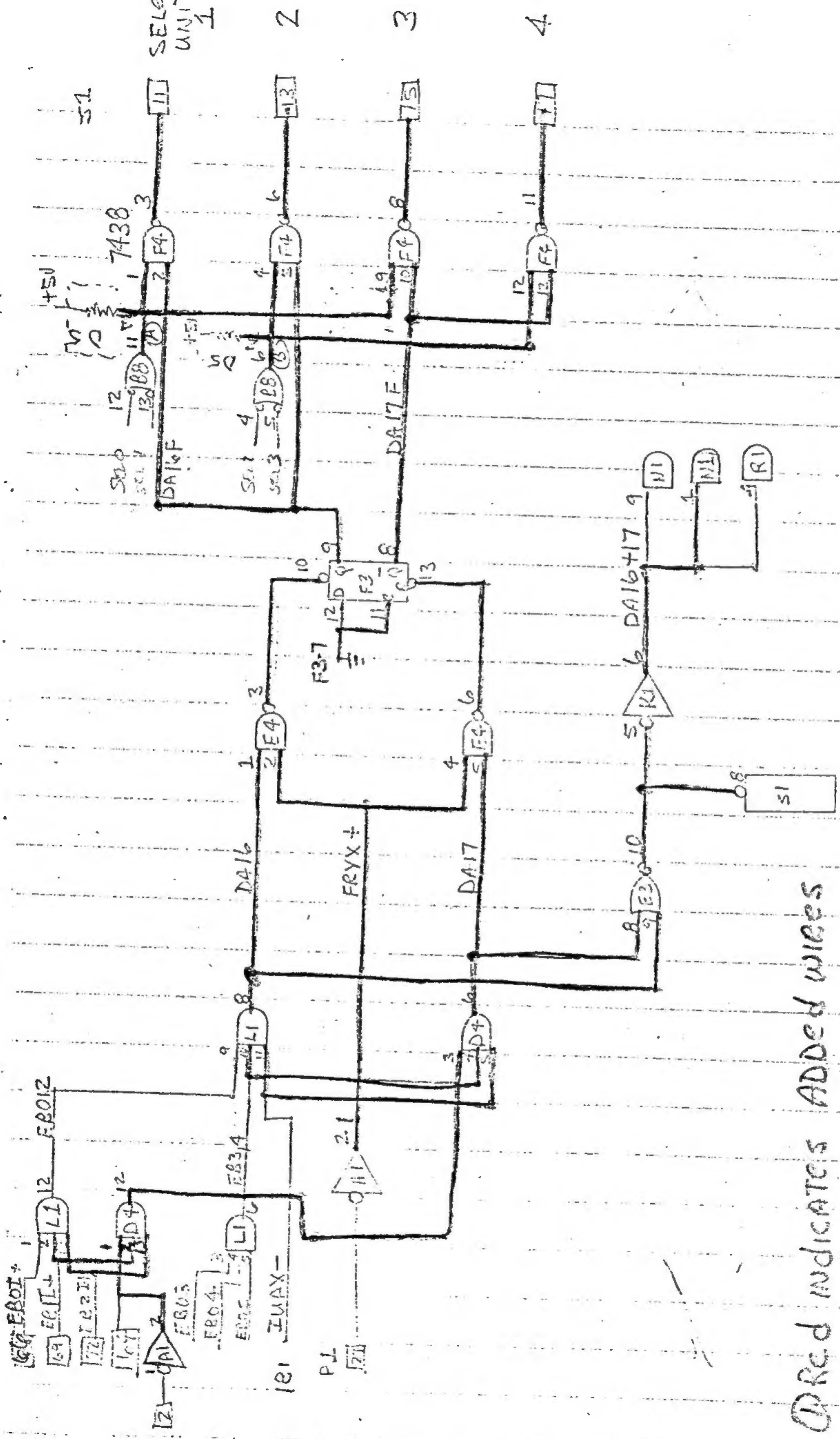


SEEK complete

MOD

① Red indicates added wires

PL



Red indicates Added wires

UNIT SELECT MON